

# DIABETES

## LITERATURE INDEX

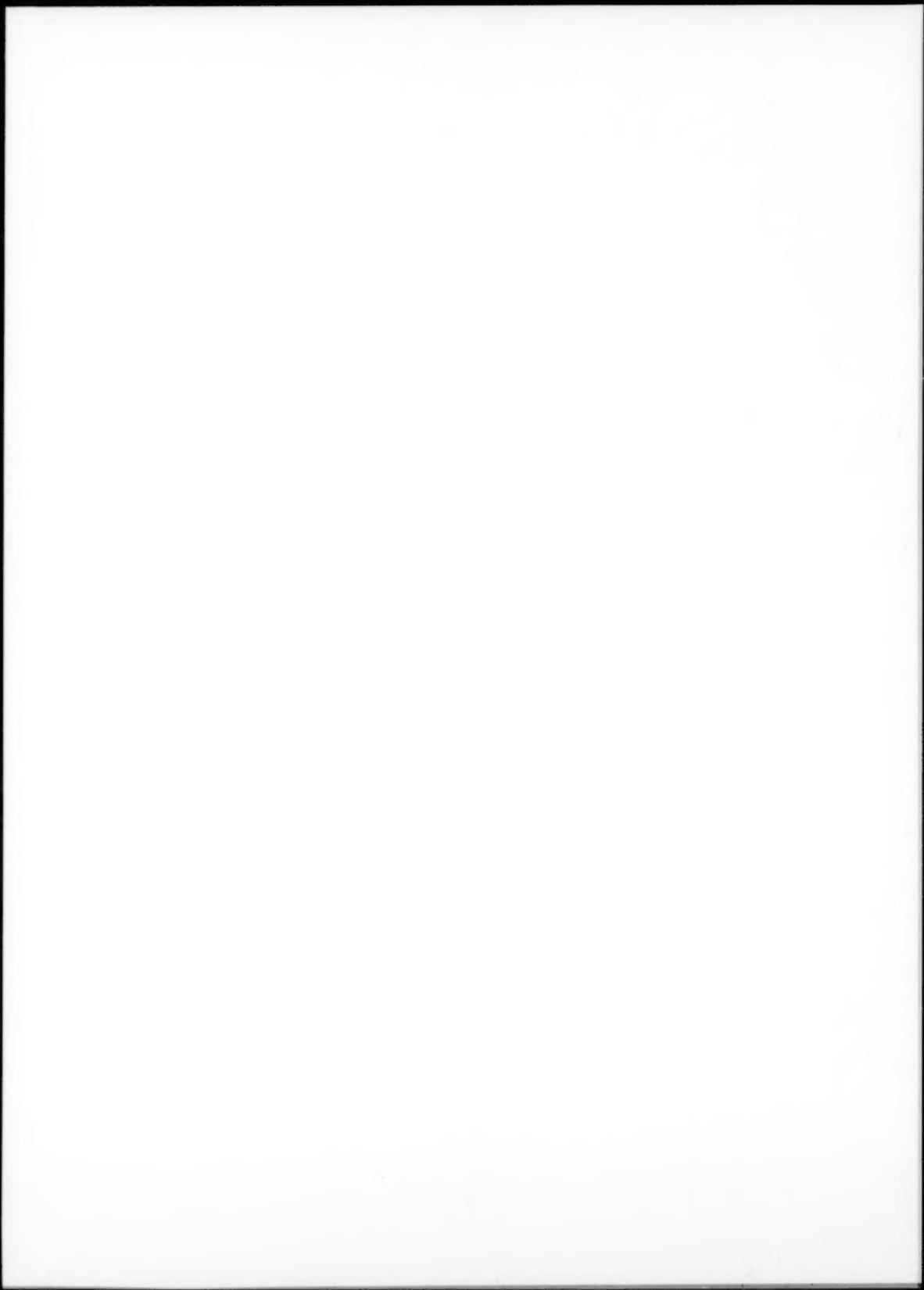
NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE

Public Health Service

National Institutes of Health

NOVEMBER 1976  
VOLUME 11, NO. 11



# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the  
National Institute of Arthritis, Metabolism, and Digestive Diseases

## Editor

*Joseph Izzo, M.D.      Rochester, New York*

## Associate Editor

*Orion D. Hegre, Ph.D.      Minneapolis, Minnesota*

## Editorial Advisors

<i>James Ashmore, Ph.D.</i>	<i>Indianapolis, Indiana</i>
<i>Jonathan S. Bishop, M.D.</i>	<i>Minneapolis, Minnesota</i>
<i>Jerome W. Conn, M.D.</i>	<i>Ann Arbor, Michigan</i>
<i>Sherwin J. Cooperstein, Ph.D.</i>	<i>Hartford, Connecticut</i>
<i>Thaddeus S. Danowski, M.D.</i>	<i>Pittsburgh, Pennsylvania</i>
<i>Peter H. Forsham, M.D.</i>	<i>San Francisco, California</i>
<i>Frederick C. Goetz, M.D.</i>	<i>Minneapolis, Minnesota</i>
<i>Irving Graef, M.D.</i>	<i>New York, New York</i>
<i>Reginald E. Haisl, M.D.</i>	<i>Toronto, Canada</i>
<i>Paul E. Lacy, M.D.</i>	<i>St. Louis, Missouri</i>
<i>Rachmiel Levine, M.D.</i>	<i>Duarte, California</i>
<i>Rolf Luft, M.D.</i>	<i>Stockholm, Sweden</i>
<i>Max Miller, M.D.</i>	<i>Cleveland, Ohio</i>
<i>Jesse Roth, M.D.</i>	<i>Bethesda, Maryland</i>
<i>Laurentius O. Underdahl, M.D.</i>	<i>Rochester, Minnesota</i>
<i>Sidney Weinhouse, M.D.</i>	<i>Philadelphia, Pennsylvania</i>
<i>Frank G. Young, Ph.D., D.Sc.</i>	<i>Cambridge, England</i>

## Technical Editor

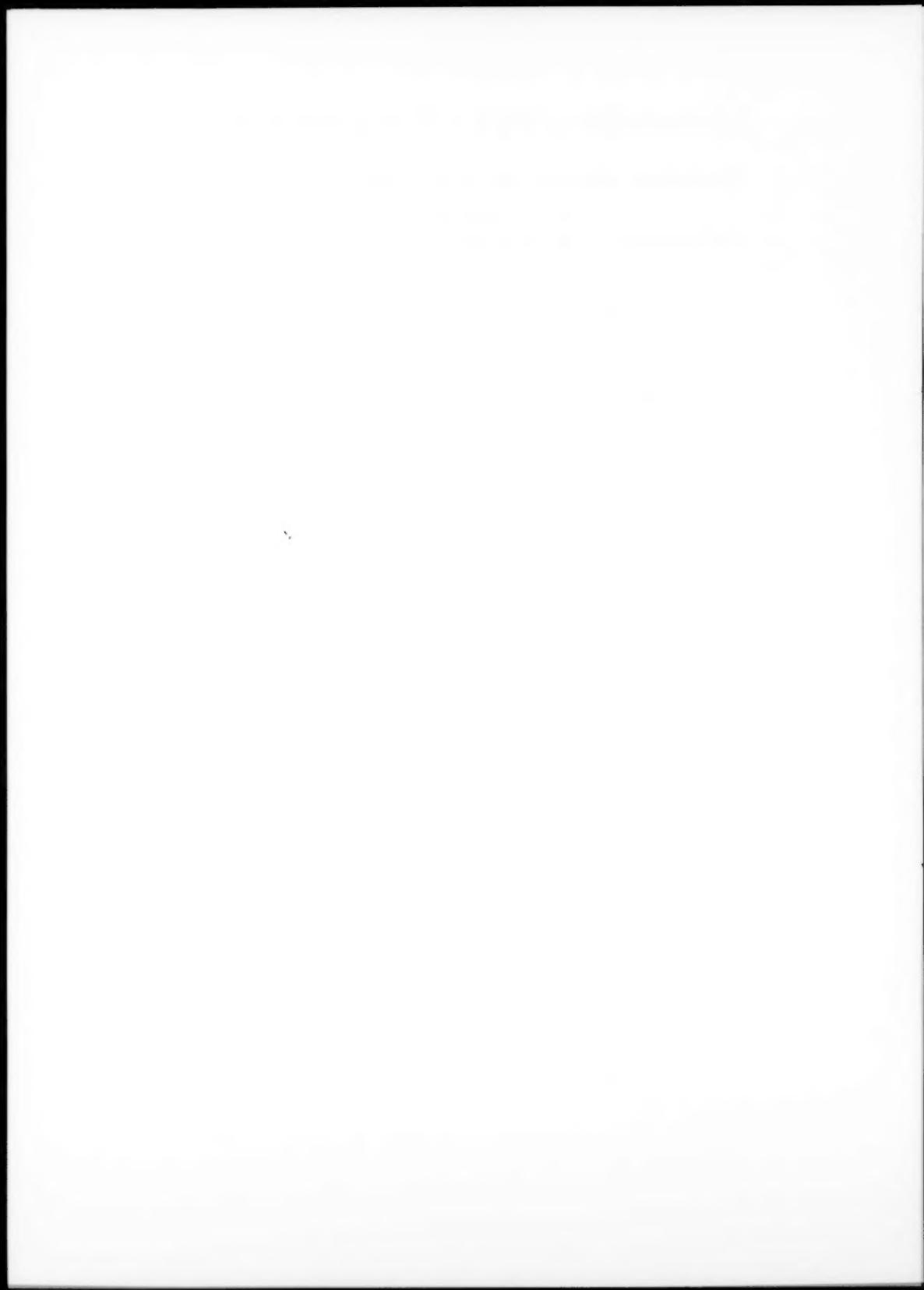
*Walter J. Schoener, B.A.      Minneapolis, Minnesota*

Prepared for the  
National Institute of Arthritis, Metabolism, and Digestive Diseases  
through the cooperative efforts of the  
University of Minnesota and the University of Rochester  
pursuant to a contract with the  
PHS, USDHEW, PH43-67-663

DHEW Publication No. (NIH) 77-303

---

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.  
Price: \$2.25 (single copy). Subscription Price: \$26.50 per year; \$6.65 additional for foreign mailing.



## CONTENTS

	<i>Page</i>
PREFACE .....	iv
EDITORIAL NOTE .....	v
HIERARCHICAL INDEX	
Arrangement of the HIERARCHICAL INDEX.....	2061
MEDLARS Terms Included in HIERARCHICAL INDEX .....	2063
KEYWORD INDEX .....	2103
AUTHOR INDEX .....	2191

## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office  
Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
Building 31, Room 9A-03  
Bethesda, Maryland 20014

*Other individuals and other libraries* may receive this publication by subscribing directly to the Superintendent of Documents. Subscription price per year in the United States, Canada, and Mexico, \$26.50 (cumulative index issue not included; will be on sale, price to be determined later); foreign, \$6.65 additional; and \$2.25 for a single copy. Payment is required in advance, and check or money order should be made payable to the Superintendent of Documents. Address changes for subscribers should be sent directly to:

Superintendent of Documents  
U.S. Government Printing Office  
Washington, D.C. 20402

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

**Hierarchical Subject Index:** This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

1	SECTION I. DIABETES MELLITUS AND RELATED TOPICS	
1.A	ISLANDS OF LANGERHANS	HYPERGLYCEMIA, DRUG THERAPY
1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	HYPERGLYCEMIA, ETIOLOGY
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	HYPERGLYCEMIA, METABOLISM
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	HYPERGLYCEMIA, URINE
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	GLUCOSURIA
1.B	PANCREAS	GLUCOSURIA, CHEMICALLY INDUCED
1.B.1	PANCREAS, ANATOMY RELATED	GLUCOSURIA, COMPLICATIONS
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	GLUCOSURIA, DIAGNOSIS
1.B.3	PANCREAS, PHYSIOLOGY RELATED	GLUCOSURIA, DRUG THERAPY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	GLUCOSURIA, ENZYMOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	GLUCOSURIA, ETIOLOGY
1.B.6	PANCREAS, SURGERY RELATED	GLUCOSURIA, METABOLISM
1.B.6.1	PANCREAS, TRANSPLANTATION	GLUCOSURIA, OCCURRENCE
1.B.6.2	PANCREATECTOMY	GLUCOSURIA, RENAL
1.C	INSULIN	HYPOLYCEMIA
1.C.1	INSULIN, BIOCHEMISTRY RELATED	HYPOLYCEMIA, BLOOD
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	HYPOLYCEMIA, CHEMICALLY INDUCED
1.C.1.2	INSULIN, ANALYSIS	HYPOLYCEMIA, COMPLICATIONS
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	HYPOLYCEMIA, DIAGNOSIS
1.C.1.4	INSULIN, BIOSYNTHESIS	HYPOLYCEMIA, DRUG THERAPY
1.C.1.5	INSULIN, METABOLISM	HYPOLYCEMIA, ETIOLOGY
1.C.1.6	INSULIN, BLOOD	HYPOLYCEMIA, METABOLISM
1.C.1.7	INSULIN, URINE	HYPOLYCEMIA, PHYSIOPATHOLOGY
1.C.2	INSULIN, PHYSIOLOGY RELATED	HYPOLYCEMIA, THERAPY
1.C.2.1	INSULIN, PHYSIOLOGY	DIABETES
1.C.2.2	INSULIN, SECRETION	ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
1.C.3	INSULIN, PHARMACOLOGY RELATED	DIABETES MELLITUS
1.C.3.1	INSULIN, PHARMACODYNAMICS	DIABETES MELLITUS, JUVENILE
1.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	DIABETES, BIOCHEMISTRY RELATED
1.C.3.3	INSULIN, ADVERSE EFFECTS	DIABETES, METABOLISM
1.C.4	HYPERINSULINISM	DIABETES, ENZYMOLOGY
1.C.4.1	INSULIN COMA	DIABETES, BLOOD
1.C.5	INSULIN ANTIBODIES	DIABETES, URINE
1.C.6	INSULIN RESISTANCE	DIABETES, PHYSIOPATHOLOGY
1.C.7	INSULIN, THERAPY RELATED	DIABETES, IMMUNOLOGY
1.C.7.1	INSULIN, DIAGNOSTIC USE	DIABETES COMPLICATIONS AND PATHOLOGY
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	DIABETIC KETOACIDOSIS
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	ACIDOSIS, DIABETIC
1.C.8	INSULIN, HISTORY	DIABETIC COMA
1.D	GLUCAGON	DIABETIC ANGIOPATHIES
1.D.1	GLUCAGON, BIOCHEMISTRY RELATED	DIABETIC NEPHROPATHIES
1.D.1.1	GLUCAGON, ANALYSIS	DIABETIC NEUROPATHIES
1.D.1.2	GLUCAGON, METABOLISM	DIABETIC RETINOPATHY
1.D.1.3	GLUCAGON, BLOOD	OTHER COMPLICATIONS OF DIABETES
1.D.2	GLUCAGON, PHYSIOLOGY RELATED	DIABETES PATHOLOGY
1.D.2.1	GLUCAGON, PHYSIOLOGY	PREGNANCY IN DIABETES
1.D.2.2	GLUCAGON, SECRETION	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
1.D.3	GLUCAGON, PHARMACOLOGY RELATED	DIABETES, OCCURRENCE
1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	DIABETES, ETIOLOGY
1.D.3.2	GLUCAGON, PHARMACODYNAMICS	DIABETES, CONGENITAL
1.D.3.3	GLUCAGON, TOXICITY	DIABETES, FAMILIAL AND GENETIC
1.D.4	GLUCAGON, THERAPY RELATED	PREDIABETIC STATE
1.D.4.1	GLUCAGON, DIAGNOSTIC USE	DIABETES, DIAGNOSIS RELATED
1.D.4.2	GLUCAGON, THERAPEUTIC USE	GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)
1.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	
1.E.1	BLOOD SUGAR	DIABETES, DIAGNOSIS
1.E.1.1	BLOOD SUGAR, ANALYSIS	DIABETES, THERAPY RELATED
1.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	DIABETES, PREVENTION AND CONTROL
1.E.1.3	BLOOD SUGAR, METABOLISM	DIABETES, NUTRITION AND DIET THERAPY
1.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	OBESITY IN DIABETES
1.E.2	GLUCOSE TOLERANCE TEST	GLUCOSE, THERAPEUTIC USE
1.E.3	HYPERGLYCEMIA	DIET
1.E.3.1	HYPERGLYCEMIA, BLOOD	DIABETIC DIET
1.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	DIETARY CARBOHYDRATES
1.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	DIETARY FATS
1.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	CYCLAMATES
		SACCHARIN
		DIABETES, INSULIN AND THERAPY

### Arrangement of the Hierarchical Index

1.F.9.3.1	INSULIN, ADMINISTRATION AND DOSAGE	2.G.2.6	JUVENILE HORMONES
1.F.9.3.2	INSULIN, THERAPEUTIC USE	2.G.3	CHROMAFFIN SYSTEM
1.F.9.4	DIABETES, ANTI DIABETICS AND THERAPY	2.G.4	PINEAL BODY
1.F.9.4.1	ANTI DIABETICS	2.G.5	PITUITARY-ADRENAL SYSTEM
1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
1.F.9.4.3	OTHER SULFONYL-UREA DERIVATIVES		
1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
1.F.10	DIABETES, EXPERIMENTAL		
1.F.10.1	DIABETES, CHEMICALLY INDUCED		
1.F.10.2	ALLOXAN DIABETES		
1.F.10.2.1	ALLOXAN DIABETES, BLOOD		
1.F.10.2.2	ALLOXAN DIABETES, DRUG THERAPY		
1.F.10.2.3	ALLOXAN DIABETES, ENZYMOLOGY		
1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
1.F.10.2.6	ALLOXAN DIABETES, PHYSIOPATHOLOGY		
1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
2	SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS		
2.A	ENDOCRINE PANCREAS		
2.A.1	ISLETS (SEE SEC. 1.A)		
2.A.2	INSULIN (SEE SEC. 1.C)		
2.A.3	GLUCAGON (SEE SEC. 1.D)		
2.B	ADRENAL GLANDS		
2.B.1	ADRENAL CORTEX		
2.B.2	ADRENAL CORTEX HORMONES		
2.B.2.1	GLUCOCORTICOIDS		
2.B.2.1.1	CORTISONE		
2.B.2.1.2	HYDROCORTISONE		
2.B.2.1.3	OTHER GLUCOCORTICOIDS		
2.B.2.2	MINERALOCORTICOIDS		
2.B.3	ADRENAL MEDULLA		
2.B.3.1	EPINEPHRINE		
2.B.3.2	NOREPINEPHRINE		
2.B.4	ADRENALECTOMY		
2.B.5	ADRENAL DISORDERS		
2.C	THYROID GLAND		
2.C.1	THYROID HORMONES		
2.C.2	THYROID ANTAGONISTS		
2.C.3	THYROID DISORDERS		
2.D	PARATHYROID GLANDS		
2.E	PITUITARY GLAND		
2.E.1	PITUITARY HORMONES, ANTERIOR		
2.E.1.1	CORTICOTROPIN		
2.E.1.2	SOMATOTROPIN		
2.E.1.3	THYROTROPIN		
2.E.1.4	GNADOTROPHINS, PITUITARY		
2.E.2	PITUITARY HORMONES, POSTERIOR		
2.E.3	PITUITARY HORMONES, INTERMEDIATE		
2.E.4	PITUITARY HORMONE RELEASING FACTORS		
2.E.5	HYPOPHYSECTOMY		
2.E.6	PITUITARY DISORDERS		
2.F	GONADS		
2.F.1	OVARY		
2.F.2	TESTIS		
2.F.3	SEX HORMONES		
2.F.3.1	ANDROGENS		
2.F.3.2	ESTROGENS		
2.F.3.3	CORPUS LUTEUM AND PROGESTATIONAL HORMONES		
2.F.3.3.1	CORPUS LUTEUM HORMONES		
2.F.3.3.2	PROGESTATIONAL HORMONES		
2.F.3.4	CONTRACEPTIVES, ORAL		
2.F.4	GONADAL DISORDERS		
2.G	OTHER ENDOCRINES AND RELATED TERMS		
2.G.1	ENDOCRINE GLANDS		
2.G.2	HORMONES		
2.G.2.1	GASTROINTESTINAL HORMONES		
2.G.2.2	PROSTAGLANDINS		
2.G.2.3	HORMONES, ECTOPIC		
2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		

## MEDLARS Terms Included in Hierarchical Index

ACETOHEXAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	1.F.6.7 DIABETES PATHOLOGY
ACIDOSIS	1.F.6.1.1 ACIDOSIS, DIABETIC	1.F.4 DIABETES, PHYSIOPATHOLOGY
ACIDOSIS, DIABETIC	1.F.6.1.1 ACIDOSIS, DIABETIC	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ACROMEGALY	2.E.6 PITUITARY DISORDERS	1.F.9.7 DIABETES, RADIOGRAPHY
ADIDOSIS DISEASE	2.B.5 ADRENAL DISORDERS	1.F.9.8 DIABETES, SURGERY
ADRENAL CORTEX HORMONES	2.B.2 ADRENAL CORTEX HORMONES	1.F.9.6 DIABETES THERAPY
ADRENAL GLAND HYPERFUNCTION	2.B.5 ADRENAL DISORDERS	1.F.3.4 DIABETES, URINE
ADRENAL GLAND HYPOFUNCTION	2.B.5 ADRENAL DISORDERS	1.F.11 DIABETES, VETERINARY
ADRENAL GLANDS	2.B.6 ADRENAL GLANDS	1.F.2.1 DIABETES MELLITUS, JUVENILE
ADRENAL MEDULLA	2.B.3 ADRENAL MEDULLA	1.F.3.3 DIABETES, BLOOD
ADRENALECTOMY	2.B.4 ADRENALECTOMY	1.F.10.1 DIABETES, CHEMICALLY INDUCED
ADRENOGENITAL SYNDROME	2.F.4 GONADAL DISORDERS	1.F.6.6 OTHER COMPLICATIONS OF DIABETES
ALDOSTERONE	2.B.5 ADRENAL DISORDERS	1.F.7.3 DIABETES, CONGENITAL
ALLOXAN DIABETES	2.B.2.2 MINERALOCORTICOIDS	1.F.8.2 DIABETES, DIAGNOSIS
BLOOD	1.F.10.2 ALLOXAN DIABETES	1.F.9.5 DIABETES DRUG THERAPY
DRUG THERAPY	1.F.10.2.1 ALLOXAN DIABETES, BLOOD	1.F.3.2 DIABETES, ENZYMOLOGY
ENZYMOLOGY	1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY	1.F.7.2 DIABETES, ETIOLOGY
METABOLISM	1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY	1.F.7.4 DIABETES, FAMILIAL AND GENETIC
PATHOLOGY	1.F.10.2.4 ALLOXAN DIABETES, METABOLISM	1.F.12 DIABETES, HISTORY
PHYSIOPATHOLOGY	1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY	1.F.5 DIABETES, IMMUNOLOGY
AMNIOCENTESIS	1.F.6.8 PREGNANCY IN DIABETES	1.F.3.1 DIABETES, METABOLISM
ANABOLIC STEROIDS	2.F.3.1 ANDROGENS	1.F.9.9 DIABETES, MORTALITY
ANDROGENS	2.F.3.1 ANDROGENS	1.F.7.1 DIABETES, OCCURRENCE
ANDROSTERONE	2.F.3.1 ANDROGENS	1.F.6.7 DIABETES PATHOLOGY
ANTI DIABETICS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	1.F.4 DIABETES, PHYSIOPATHOLOGY
APGAR SCORE	1.F.9.4.1 ANTI DIABETICS	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ARTERIOSCLEROSIS	1.F.6.8 PREGNANCY IN DIABETES	1.F.9.7 DIABETES, RADIOGRAPHY
BETAMETHASONE	1.F.6.2 DIABETIC ANGIOPATHIES	1.F.9.8 DIABETES, SURGERY
BIGUANIDES	2.B.2.1.3 OTHER GLUCOCORTICOIDS	1.F.9.6 DIABETES THERAPY
BLOOD SUGAR	1.F.9.4.5 OTHER BIGUANIDES	1.F.3.4 DIABETES, URINE
ANALYSIS	1.E.1 BLOOD SUGAR	1.F.11 DIABETES, VETERINARY
BIOSYNTHESIS	1.E.1.1 BLOOD SUGAR, ANALYSIS	1.F.6.2 DIABETIC ANGIOPATHIES
METABOLISM	1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS	1.F.6.1.2 DIABETIC COMA
PHARMACODYNAMICS	1.E.1.3 BLOOD SUGAR, METABOLISM	1.F.9.2.4 DIABETIC DIET
CALCITONIN	1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS	1.F.6.3 DIABETIC NEUROPATHIES
CARBUTAMIDE	2.C.1 THYROID HORMONES	1.F.6.4 DIABETIC NEUROPATHIES
CHLORMADINONE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	1.F.6.5 DIABETIC RETINOPATHY
CHLOROTRIANISENE	2.F.3.3.2 PROGESTATIONAL HORMONES	1.F.9.2.3 DIET
CHLOROPROPAMIDE	2.F.3.2 ESTROGENS	1.F.9.2.3 DIET
CHOLECYSTOKININ	1.F.9.3 OTHER SULFONYL-UREA DERIVATIVES	1.F.9.2.5 DIETARY CARBOHYDRATES
CHOLESTEROL, DIETARY	2.G.2.1 GASTROINTESTINAL HORMONES	1.F.9.2.6 DIETARY FATS
CHROMAFFIN SYSTEM	1.F.9.2.6 DIETARY FATS	2.F.3.2 ESTROGENS
CONTRACEPTIVES, ORAL	2.E.3.0 CHROMAFFIN SYSTEM	2.C.1 THYROID HORMONES
CORONARY DISEASE	2.F.3.4 CONTRACEPTIVES, ORAL	2.F.3.1 ANDROGENS
CORPUS LUTEUM	1.F.6.2 DIABETIC ANGIOPATHIES	2.E.6 PITUITARY DISORDERS
CORPUS LUTEUM HORMONES	2.F.1 OVARY	2.F.3.3.2 PROGESTATIONAL HORMONES
CORTICOSTERONE	2.F.3.3 CORPUS LUTEUM HORMONES	2.G.2 HORMONES
CORTICOTROPIN	2.B.2.1.3 OTHER GLUCOCORTICOIDS	2.G.1 ENDOCRINE GLANDS
CORTICOTROPIN RELEASING HORMONE	2.E.1.1 CORTICOTROPIN	2.G.1 ENDOCRINE GLANDS
CORTISONE	2.E.4 PITUITARY HORMONE RELEASING FACTORS	2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
CRETINISM	2.B.2.1.1 CORTISONE	2.B.3.1 EPINEPHRINE
CUSHINGS SYNDROME	2.C.3 THYROID DISORDERS	2.F.3.2 ESTROGENS
CYCLAMATES	2.B.5 ADRENAL DISORDERS	2.F.3.2 ESTROGENS
CYTOCHALASIN B	1.F.9.2.7 CYCLAMATES	2.F.3.2 ESTROGENS
CYTOCHALASINS	1.C.2.2 INSULIN SECRETION	2.F.3.2 ESTROGENS
DEHYDROEPIANDROSTERONE	1.C.2.2 INSULIN SECRETION	2.F.3.2 ESTROGENS
DESOXYCORTICOSTERONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	2.F.3.2 ESTROGENS
DEKAMETHASONE	2.B.2.2 MINERALOCORTICOIDS	2.F.3.2 ESTROGENS
DIABETES INSIPIDUS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	2.F.3.2 ESTROGENS
DIABETES MELLITUS	2.E.6 PITUITARY DISORDERS	2.F.3.2 ESTROGENS
BLOOD	1.F.2 DIABETES MELLITUS	2.F.3.2 ESTROGENS
CHEMICALLY INDUCED	1.F.3.3 DIABETES, BLOOD	2.F.3.2 ESTROGENS
COMPLICATIONS	1.F.10.1 DIABETES, CHEMICALLY INDUCED	2.F.3.2 ESTROGENS
CONGENITAL	1.F.6.6 OTHER COMPLICATIONS OF DIABETES	2.F.3.2 ESTROGENS
DIAGNOSIS	1.F.7.3 DIABETES, CONGENITAL	2.F.3.1 ANDROGENS
DRUG THERAPY	1.F.8.2 DIABETES, DIAGNOSIS	2.F.4 GONADAL DISORDERS
ENZYMOLOGY	1.F.9.5 DIABETES DRUG THERAPY	2.B.2.1.3 OTHER GLUCOCORTICOIDS
ETOLOGY	1.F.3.2 DIABETES, ENZYMOLOGY	2.B.2.2 MINERALOCORTICOIDS
FAMILIAL & GENETIC	1.F.7.2 DIABETES, ETIOLOGY	2.B.2.1.3 OTHER GLUCOCORTICOIDS
HISTORY	1.F.7.4 DIABETES, FAMILIAL AND GENETIC	2.B.2.1.3 OTHER GLUCOCORTICOIDS
IMMUNOLOGY	1.F.12 DIABETES, HISTORY	2.F.3.1 ANDROGENS
METABOLISM	1.F.5 DIABETES, IMMUNOLOGY	2.B.2.1.3 OTHER GLUCOCORTICOIDS
MORTALITY	1.F.3.1 DIABETES, METABOLISM	2.E.6 PITUITARY DISORDERS
OCURRENCE	1.F.9.9 DIABETES, MORTALITY	2.E.1.4 GONADOTROPHINS, PITUITARY
	1.F.7.1 DIABETES, OCCURRENCE	2.G.2.1 GASTROINTESTINAL HORMONES
		2.G.2.1 GASTROINTESTINAL HORMONES

## MEDLARS Terms Included in Hierarchical Index

GIGANTISM	2.E.6 PITUITARY DISORDERS	PHYSIOLOGY	1.C.2.1 INSULIN, PHYSIOLOGY
GIBENCLAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	1.C.2.2 INSULIN, SECRETION	1.C.2.2 INSULIN, SECRETION
GLUCAGON	1.D GLUCAGON	1.C.9.3.1 INSULIN, THERAPEUTIC USE	1.F.9.3.2 INSULIN, THERAPEUTIC USE
ADMINISTRATION & DOSAGE	1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE	1.C.1.7 INSULIN, URINE	1.C.5 INSULIN ANTIBODIES
ANALYSIS	1.D.1.1 GLUCAGON, ANALYSIS	1.C.4.1 INSULIN COMA	1.C.4.1 INSULIN COMA
BLOOD	1.D.1.3 GLUCAGON, BLOOD	1.F.9.3.2 INSULIN, THERAPEUTIC USE	1.F.9.3.2 INSULIN, THERAPEUTIC USE
DIAGNOSTIC USE	1.D.4.1 GLUCAGON, DIAGNOSTIC USE	1.F.9.3.2 INSULIN, THERAPEUTIC USE	1.F.9.3.2 INSULIN, THERAPEUTIC USE
METABOLISM	1.D.1.2 GLUCAGON, METABOLISM	1.F.9.3.2 INSULIN, THERAPEUTIC USE	1.F.9.3.2 INSULIN, THERAPEUTIC USE
PHARMACODYNAMICS	1.D.3.2 GLUCAGON, PHARMACODYNAMICS	1.F.9.3.2 INSULIN, THERAPEUTIC USE	1.F.9.3.2 INSULIN, THERAPEUTIC USE
PHYSIOLOGY	1.D.2.1 GLUCAGON, PHYSIOLOGY	1.C.6 INSULIN RESISTANCE	2.G.2.3 HORMONES, ECTOPIC
SECRETION	1.D.2.2 GLUCAGON, SECRETION	INVERTEBRATE HORMONES	1.A ISLANDS OF LANGERHANS
THEAPEUTIC USE	1.D.4.2 GLUCAGON, THERAPEUTIC USE	ISLANDS OF LANGERHANS ANALYSIS	1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
TOXICITY	1.D.3.3 GLUCAGON, TOXICITY	ANATOMY & HISTOLOGY	1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
GLUCOCORTICOIDS	2.B.2.1 GLUCOCORTICOIDS	BLOOD SUPPLY	1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
GLUCOSE		CYTOLGY	1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
THEAPEUTIC USE		DRUG EFFECTS	1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED
GLUCOSE TOLERANCE TEST	1.F.9.2.2 GLUCOSE, THERAPEUTIC USE	EMBRYOLOGY	1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
GLYCOSURIA	1.E.2 GLUCOSE TOLERANCE TEST	ENZYMOLOGY	1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
CHEMICALLY INDUCED	1.E.4 GLYCOSURIA	GROWTH & DEVELOPMENT	1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
COMPLICATIONS	1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED	INNERVATION	1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
DIAGNOSIS	1.E.4.2 GLYCOSURIA, COMPLICATIONS	METABOLISM	1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
DRUG THERAPY	1.E.4.3 GLYCOSURIA, DIAGNOSIS	PATHOLOGY	1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
ENZYMOLOGY	1.E.4.4 GLYCOSURIA, DRUG THERAPY	PHYSIOLOGY	1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
ETIOLOGY	1.E.4.5 GLYCOSURIA, ENZYMOLOGY	PHYSIOPATHOLOGY	1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
METABOLISM	1.E.4.6 GLYCOSURIA, ETIOLOGY	SECRETION	1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
OCURRENCE	1.E.4.7 GLYCOSURIA, METABOLISM	ISLET CELL TUMOR	1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
GLYCOSURIA, RENAL	1.E.4.8 GLYCOSURIA, OCCURRENCE	JUVENILE HORMONES	2.G.2.6 JUVENILE HORMONES
GOITER, EXOPHTHALMIC	1.E.5 GLYCOSURIA, RENAL	17-KETOSTEROIDS	2.B.2.1.3 OTHER GLUCOCORTICOIDS
GNADOTROPHINS, CHORIONIC	2.C.3 THYROID DISORDERS	KIMMELSTIEL-WILSON SYNDROME	1.F.6.3 DIABETIC NEPHROPATHIES
GNADOTROPHINS, EQUINE	2.G.2.4 PLACENTAL HORMONES	KLINEFELTER'S SYNDROME	2.F.4 GONADAL DISORDERS
GNADOTROPHINS, PITUITARY	2.E.1.4 GNADOTROPHINS, PITUITARY	LEYDIG CELL TUMOR	2.F.4 GONADAL DISORDERS
GNADOS	2.F.1 GONADS	LEYDIG CELLS	2.F.2 TESTIS
GRAAFIAN FOLLICLE	2.F.1 OVARY	LH-FSH RELEASING HORMONE	2.E.1.4 GNADOTROPHINS, PITUITARY
GROWTH DISORDERS	2.E.6 PITUITARY DISORDERS	LYNESTRENOLE	2.F.3.3.2 PROGESTATIONAL HORMONES
HERMAPHRODITISM	2.F.4 GONADAL DISORDERS	MEDROXYPROGESTERONE	2.F.3.3.2 PROGESTATIONAL HORMONES
HEXESTROL	2.F.3.2 ESTROGENS	MELATONIN	2.E.3 PITUITARY HORMONES, INTERMEDIATE
HORMONES	2.G.2 HORMONES	MESTRANOL	2.F.3.2 ESTROGENS
HORMONES, ECTOPIC	2.G.2.3 HORMONES, ECTOPIC	METHAHEXAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
HYDROCORTISONE	2.B.2.1.2 HYDROCORTISONE	METHOTREXATE	1.F.9.4.5 OTHER BIGUANIDES
11-HYDROXYCORTICOGENS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	METHANDROSTENOLONE	2.F.3.1 ANDROGENS
17-HYDROXYCORTICOGENS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	METHYLPREDNISOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
HYDROXYCORTICOGENS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	METHYLTRESTERONE	2.F.3.1 ANDROGENS
HYDROXYMETHYTESTOSTERONE	2.F.3.1 ANDROGENS	METHYLTHIOURACIL	2.C.2 THYROID ANTAGONISTS
HYDROXYPROGESTERONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	MINERALCORTICOIDS	2.B.2.2 MINERALCORTICOIDS
HYPERALDOSTERONISM	2.F.3.3.2 PROGESTATIONAL HORMONES	MSH	2.E.3 PITUITARY HORMONES, INTERMEDIATE
HYPERGLYCEMIA	2.B.5 ADRENAL DISORDERS	MYXEDEMA	2.C.3 THYROID DISORDERS
BLOOD	1.E.3.1 HYPERGLYCEMIA	NANDROLONE	2.F.3.1 ANDROGENS
CHEMICALLY INDUCED	1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED	NOREPINEPHRINE	2.B.3.2 NOREPINEPHRINE
COMPLICATIONS	1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS	NORETHANDROLENE	2.F.3.1 ANDROGENS
DIAGNOSIS	1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS	NORETHINDRONE	2.F.3.3.2 PROGESTATIONAL HORMONES
DRUG THERAPY	1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY	NORETHYNODREL	2.F.3.3.2 PROGESTATIONAL HORMONES
ETIOLOGY	1.E.3.6 HYPERGLYCEMIA, ETIOLOGY	NORMETHANDROLONE	2.F.3.1 ANDROGENS
METABOLISM	1.E.3.7 HYPERGLYCEMIA, METABOLISM	OBESITY IN DIABETES	1.F.9.2.1 OBESITY IN DIABETES
PHYSIOPATHOLOGY	1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY	OVARIAN CYSTS	2.F.1 OVARY
URINE	1.E.3.9 HYPERGLYCEMIA, URINE	OVARIAN DISEASES	2.F.4 GONADAL DISORDERS
HYPERINSULINISM	1.C.4 HYPERINSULINISM	OVARIAN NEOPLASMS	2.F.4 GONADAL DISORDERS
HYPERPITUITARISM	2.E.6 PITUITARY DISORDERS	OVARY	2.F.1 OVARY
HYPERHYROIDISM	2.C.3 THYROID DISORDERS	OXANDROLONE	2.F.3.1 ANDROGENS
HYPOGLYCEMIA	1.E.6 HYPOGLYCEMIA	OXYMETHOLONE	2.F.3.1 ANDROGENS
BLOOD	1.E.6.1 HYPOGLYCEMIA, BLOOD	OXYTOCICS	2.E.2 PITUITARY HORMONES, POSTERIOR
CHEMICALLY INDUCED	1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED	OXYTOCIN	1.B PANCREAS
COMPLICATIONS	1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS	PANCREAS	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
DIAGNOSIS	1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS	ANALYSIS	1.B.1 PANCREAS, ANATOMY RELATED
DRUG THERAPY	1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY	BLOOD SUPPLY	1.B.1 PANCREAS, ANATOMY RELATED
ETIOLOGY	1.E.6.6 HYPOGLYCEMIA, ETIOLOGY	CYTOLGY	1.B.4 PANCREAS, PHARMACOLOGY RELATED
METABOLISM	1.E.6.7 HYPOGLYCEMIA, METABOLISM	DRUG EFFECTS	1.B.1 PANCREAS, ANATOMY RELATED
PHYSIOPATHOLOGY	1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY	EMBRYOLOGY	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
THEAPY	1.E.6.9 HYPOGLYCEMIA, THERAPY	ENZYMOLOGY	1.B.1 PANCREAS, ANATOMY RELATED
HYPOGLYCEMIC AGENTS (NON MESH)	1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED	INNERVATION	1.B.1 PANCREAS, ANATOMY RELATED
HYPOGONADISM	2.F.4 GONADAL DISORDERS	METABOLISM	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
HYPOPHSECTOMY	2.E.5 HYPOPHSECTOMY		
HYPOPITUITARISM	2.E.6 PITUITARY DISORDERS		
HYPOTHYROIDISM	2.C.3 THYROID DISORDERS		
INSULIN	1.C INSULIN		
ADMINISTRATION & DOSAGE	1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE		
ADVERSE EFFECTS	1.C.3.3 INSULIN, ADVERSE EFFECTS		
ANALYSIS	1.C.1.2 INSULIN, ANALYSIS		
ANTAGONISTS & INHIBITORS	1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS		
BIOSYNTHESIS	1.C.1.4 INSULIN, BIOSYNTHESIS		
BLOOD	1.C.1.6 INSULIN, BLOOD		
CHEM SYNTHESIS	1.C.1.3 INSULIN, CHEMICAL SYNTHESIS		
DIAGNOSTIC USE	1.C.7.1 INSULIN, DIAGNOSTIC USE		
HISTORY	1.C.8 INSULIN, HISTORY		
ISOLATION & PURIFICATION	1.C.1.1 INSULIN, ISOLATION AND PURIFICATION		
METABOLISM	1.C.1.5 INSULIN, METABOLISM		
PHARMACODYNAMICS	1.C.3.1 INSULIN, PHARMACODYNAMICS		

## MEDLARS Terms Included in Hierarchical Index

PATHOLOGY	1.B.5 PANCREAS, PATHOLOGY RELATED
PHYSIOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
PHYSIOPATHOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
SECRETION	1.B.3 PANCREAS, PHYSIOLOGY RELATED
TRANSPLANTATION	1.B.6.1 PANCREAS, TRANSPLANTATION
PANCRECTOMY	1.B.6.2 PANCRECTOMY
PANCREATIC DISEASES	1.B.5 PANCREAS, PATHOLOGY RELATED
PANCREATIC EXTRACTS	1.B.4 PANCREAS, PHARMACOLOGY RELATED
PANCREATIC HORMONES	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
PANCREOZYMIN	1.G.2.1 GASTROINTESTINAL HORMONES
PARAMETHASONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PARATHYROID DISEASES	2.D PARATHYROID GLANDS
PARATHYROID GLANDS	2.D PARATHYROID GLANDS
PARATHYROID HORMONE	1.F.9.4.4 PHENFORMIN
PHENFORMIN	2.G.4 PINEAL BODY
PINEAL BODY	2.G.5 PITUITARY-ADRENAL SYSTEM
PITUITARY-ADRENAL SYSTEM	2.E PITUITARY GLAND
PITUITARY GLAND	
PITUITARY HORMONE RELEASING HORMONES	2.E.4 PITUITARY HORMONE RELEASING FACTORS
PITUITARY HORMONES, ANTERIOR	2.E.1 PITUITARY HORMONES, ANTERIOR
PITUITARY HORMONES, POSTERIOR	2.E.2 PITUITARY HORMONES, POSTERIOR
PLACENTA DISORDERS	1.F.6.8 PREGNANCY IN DIABETES
PLACENTAL HORMONES	2.G.2.4 PLACENTAL HORMONES
PREDIABETIC STATE	1.F.7.5 PREDIABETIC STATE
PREDNISOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREDNISONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREGNANCY	1.F.6.8 PREGNANCY IN DIABETES
PREGNANCY IN DIABETES	1.F.6.8 PREGNANCY IN DIABETES
PREGNANEDIOL	2.F.3.3.2 PROGESTATIONAL HORMONES
PREGNANETRIOL	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREGNENOLONE	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTATIONAL HORMONES	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTERONE	2.F.3.3.2 PROGESTATIONAL HORMONES
PROINSULIN	1.C.1.4 INSULIN, BIOSYNTHESIS
PROLACTIN	2.E.1.4 GONADOTROPHINS, PITUITARY
PROPYLTHIOURACIL	2.G.2 THYROID ANTAGONISTS
PROSTAGLANDINS	2.G.2.2 PROSTAGLANDINS
PUBERTY, PRECOCIOUS	2.F.4 GONADAL DISORDERS
RECEPTORS, HORMONE	2.G.2 HORMONES
PELAXIN	2.G.2.5 RELAXIN
SACCHARIN	1.F.9.2.8 SACCHARIN
SECREtin	2.G.2.1 GASTROINTESTINAL HORMONES
SECRETORY RATE	2.G.6 SECRETORY RATE
SERTOLI CELL TUMOR	2.F.2 TESTIS
SERTOLI CELLS	2.F.4 GONADAL DISORDERS
SEX DIFFERENTIATION DISORDERS	2.F.3 SEX HORMONES
SEX HORMONES	2.E.6 PITUITARY DISORDERS
SHEEHANS SYNDROME	1.F.6.2 DIABETIC ANGIOPATHIES
SKIN ULCER	2.E.1.2 SOMATOTROPIN
SOMATOTROPIN	2.E.1.2 SOMATOTROPIN
SOMATOTROPIN RELEASING HORMONE	2.F.3.1 ANDROGENS
STANOLONE	2.C.2 THYROID ANTAGONISTS
STANOZOLOL	2.C.2 THYROID ANTAGONISTS
TESTICULAR DISEASES	2.C.2 THYROID ANTAGONISTS
TESTICULAR FEMINIZATION	2.C.2 THYROID ANTAGONISTS
TESTICULAR NEOPLASMS	2.C.3 THYROID DISORDERS
TESTIS	2.C.3 THYROID GLAND
TESTOSTERONE	2.C.1 THYROID HORMONES
THIOCYANATES	2.E.4 PITUITARY HORMONE RELEASING FACTORS
THIOURACIL	2.C.1 THYROID HORMONES
THIOURA	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
THYROID ANTAGONISTS	1.F.9.4.2 TOLBUTAMIDE
THYROID CRISIS	2.B.2.1.3 OTHER GLUCOCORTICOIDS
THYROID GLAND	2.C.1 THYROID HORMONES
THYROID HORMONES	2.E.1.3 THYROTROPIN
THYROIDITIS	2.C.3 THYROID DISORDERS
THYROIDITIS, LYMPHOMATOUS	2.C.1 THYROID HORMONES
THYRONINE	2.E.4 PITUITARY HORMONE RELEASING FACTORS
THYROTROPIN	2.C.1 THYROID HORMONES
THYROTROPIN RELEASING HORMONE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
THYroxine	1.F.9.4.2 TOLBUTAMIDE
TOLAZAMIDE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
TOLBUTAMIDE	2.C.1 THYROID HORMONES
TRIAMINODIOL	2.F.4 GONADAL DISORDERS
TRIIODOTHYRONINE	2.E.2 PITUITARY HORMONES, POSTERIOR
TURNERS SYNDROME	2.F.4 GONADAL DISORDERS
VASOPRESSIN	2.B.5 ADRENAL DISORDERS
VIRILISM	
WATERHOUSE-FRIDERICHSEN SYNDROME	



## SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

### 1.A ISLANDS OF LANGERHANS

SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS. Matas AJ, Sutherland DE, Steffes MW, Najarjan JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

PROCEEDINGS: ISOLATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS IN RAT AND MONKEY. Ballinger W *Ann R Coll Surg Engl* 58: 327, Jul 76 (Eng) DL/76NOV327

ISOLATED ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES. Gray BN, Watkins E Jr *Aust J Exp Biol Med Sci* 54: 57-70, Feb 76 (Eng) DL/76NOV350

#### 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

AN EXPERIMENTAL INVESTIGATION INTO THE POSSIBLE NEURAL CREST ORIGIN OF PANCREATIC APUD (ISLET) CELLS. Andrew A *J Embryol Exp Morphol* 35: 577-93, Jun 76 (Eng) DL/76NOV135

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

THE REGULATION OF INSULIN SECRETION. Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [8/14] DL/76NOV235

EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH). Gili TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV291

#### 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED

PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO. Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION

AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

THE MODE OF ACTION OF ADENOSINE 3:5-CYCLIC PHOSPHATE IN THE REGULATION OF INSULIN SECRETION. Montague W, Howell SL *Ciba Found Symp* 41: 141-58, 1976 (Eng) [3/3] DL/76NOV38

CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhlike H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [3/3] DL/76NOV39

MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES. Orci L *Ciba Found Symp* 41: 267-80, 1976 (Eng) DL/76NOV40

SOMATOSTATIN--CLINICAL IMPLICATIONS. Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [8/9] DL/76NOV46

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYHYDYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroek J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL. PP. 433-50. Pelletier G *In 0 Labrie F, et al., ed. Hypothalamus and endocrine functions*. New York, Plenum Press, 1976, W1 CU82M v.3 1976. (Eng) [23] DL/76NOV126

SOMATOSTATIN AND THE ENDOCRINE PANCREAS. PP. 127-43. Gerich JE *In 0 Labrie F, et al., ed. Hypothalamus and endocrine functions*. New York, Plenum Press, 1976, W1 CU82M v.3 1976. (Eng) [5/5] DL/76NOV127

PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESE HYPERGLYCAEMIC MICE. Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

DISTRIBUTION OF LABELLED STREPTOZOTOCIN IN MICE: UPTAKE AND RETENTION IN PANCREATIC ISLETS. Tjalve H, Wilander E, Johansson EB *J Endocrinol* 69: 455-6, Jun 76 (Eng) DL/76NOV134

THE REGULATION OF INSULIN SECRETION. Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [8/14] DL/76NOV235

THE EFFECT OF N-ACYLGUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT. Ashcroft SJ, Crossley JR, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE. Schilin J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON. O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA). O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL? Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaisse WJ *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

#### 1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED

[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS] Cavazzini MG, Papadis F, Banchini E, Marchesi L, Sampaoli GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

THE CONTROL OF INSULIN RELEASE BY SUGARS. Ashcroft SJ *Ciba Found Symp* 41: 117-39, 1976 (Eng) [5/8] DL/76NOV37

THE MODE OF ACTION OF ADENOSINE 3:5-CYCLIC PHOSPHATE IN THE REGULATION OF INSULIN SECRETION. Montague W, Howell SL *Ciba Found Symp* 41: 141-58, 1976 (Eng) [3/3] DL/76NOV46

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [8/9] DL/76NOV46

PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM. Atwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

## Diabetes Literature—Hierarchical Index

### 1.B PANCREAS

[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT] Rylova AK *Kardiologija* 15: 100-3, Sep 75 (Rus) DL/76NOV150

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS. El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

#### 1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED

[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN] Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 May 76 (Ita) DL/76NOV4

PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO. Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV508

EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV509

THE CONTROL OF INSULIN RELEASE BY SUGARS. Ashcroft SJ *Ciba Found Symp* 41: 117-39, 1976 (Eng) [58] DL/76NOV37

THE MODE OF ACTION OF ADENOSINE 3'-5'-CYCLIC PHOSPHATE IN THE REGULATION OF INSULIN SECRETION. Montague W, Howell SL *Ciba Found Symp* 41: 141-58, 1976 (Eng) [33] DL/76NOV38

CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhlike H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

SOMATOSTATIN AND THE ENDOCRINE PANCREAS. PP. 127-43. Gerich JE In *0 Labrie F, et al., ed. Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. W1 C182M v.3 1976. (Eng) [55] DL/76NOV127

EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV291

[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL)] Violante A, Nardoni C, Lenza G *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA). O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS. El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

#### 1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Lechy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV6

ISLET CELL TUMORS OF THE PANCREAS. PP. 183-7. Selawry HP In *0 Charley KK, Sudarasanam A, ed. Hormones and cancer*. New York, Stratton, 1976. W3 C162GS 1975h. (Eng) DL/76NOV116

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

[INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APROPOS OF 2 CASES)] Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT] Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER. Schubart UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

### 1.B PANCREAS

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV235

THE REGULATION OF INSULIN SECRETION. Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [814] DL/76NOV235

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

#### 1.B.1 PANCREAS, ANATOMY RELATED

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

#### 1.B.2 PANCREAS, BIOCHEMISTRY RELATED

GASTROINTESTINAL HORMONES. Sullivan SN *Can J Surg* 19: 295-310, Jul 76 (Eng) DL/76NOV26

SOMATOSTATIN--CLINICAL IMPLICATIONS. Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kempler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H In *0 Reich E, et al., ed. Proteases and biological control*. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) [104] DL/76NOV129

THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON. O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA). O'Connor KJ, Lazarus NR

## Diabetes Literature—Hierarchical Index

### 1.C INSULIN

*Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

#### 1.B.3 PANCREAS, PHYSIOLOGY RELATED

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

**SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY.** Miyata M, Yamamoto T, Nakao K *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

**POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS.** Goto Y, Seino Y, Tamimoto T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

**GLUCOSE ASSIMILATION IN NEONATES.** pp. 165-81. Salle B, Chance GW, Ruitton-Ugliengo M, Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlik H *In: Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis: Green, 1975. WS 27.1 S989n 1972.* (Eng) DL/76NOV131

**EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

**ENDOCRINOPATHY IN THALASSAEMIA MAJOR.** McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

#### 1.B.4 PANCREAS, PHARMACOLOGY RELATED

**THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT.** Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

**POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS.** Goto Y, Seino Y, Tamimoto T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

**EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

#### 1.B.5 PANCREAS, PATHOLOGY RELATED

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

#### 1.B.6 PANCREAS, SURGERY RELATED

##### 1.B.6.1 PANCREAS, TRANSPLANTATION

**TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT.** Brynger H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59: 62, 6-7 Mar 75 (Eng) DL/76NOV241

**PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES.** Lundgren G, Arnep P, Groth CG, Hardsledt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

##### 1.B.6.2 PANCREATECTOMY

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

**PLASMA GLUCAGON AFTER KIDNEY EXCLUSION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN Eviscerated DOGS.** Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV174

**[ISO]ENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY]** Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

### 1.C INSULIN

Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

#### 1.C.1 INSULIN, BIOCHEMISTRY RELATED

##### 1.C.1.1 INSULIN, ISOLATION AND PURIFICATION

**ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN.** Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

##### 1.C.1.2 INSULIN, ANALYSIS

**ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN.** Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

**ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT.** Kitagawa T, Aikawa T *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) DL/76NOV86

**SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matas AJ, Sutherland DE, Steffes MW, Najaraj JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

**THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON.** O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

**EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS.** El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

##### 1.C.1.3 INSULIN, CHEMICAL SYNTHESIS

##### 1.C.1.4 INSULIN, BIOSYNTHESIS

**PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO.** Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

**CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS.** Zuhlik H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

**MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES.** Acher R *Ciba Found Symp* 41: 51-59, 1976 (Eng) [35] DL/76NOV43

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

**ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY.** Permutt MA, Bies-

## Diabetes Literature—Hierarchical Index

### 1.C INSULIN

broeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

**RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS.** Terrio S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

**PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES.** PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhkle H *In Reich E, et al., ed. Proteases and biological control. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975.* (Eng) [104] DL/76NOV129

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

**THE EFFECT OF N-ACYGLUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT.** Ashcroft SJ, Crossley J, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

**I.C.1.5 INSULIN, METABOLISM**

**INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS.** Esber EC, Buell DN, Leikin SL *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

**CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST.** Hearse DJ, Stewart DA, Braimbridge MV, Chis B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

**MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES.** Orci L *Ciba Found Symp* 41: 267-80, 1976 (Eng) DL/76NOV40

**SOMATOSTATIN—CLINICAL IMPLICATIONS.** Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

**PARTIAL CHARACTERIZATION OF A THERMOPHILIC ACTINOMYCETE RENNIN.** Laxer S, Pinsky A, Bartoo B *Experientia* 67-75, 1976 (Eng) DL/76NOV55

**INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE.** Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

**MEMBRANE RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS.** Kahn CR *J Cell Biol* 70: 261-86, Aug 76 (Eng) DL/76NOV89

**INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS.** Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

**INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY.** Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

**THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISO-**

**LATED RAT ADIPOCYTES.** Olefsky JM *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

**RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS.** Terrio S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

**ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERUREMIA IN THE RAT.** Spencer HW, Yarger WE, Robinson RR *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

**CIRCULAR DICHROISM STUDIES ON THE INTERACTION OF SULFONYLUREAS WITH INSULIN.** Muller WE, Wollert U *Naunyn Schmiedebergs Arch Pharmacol* 293: 97-9, 24 Mar 76 (Eng) DL/76NOV185

**EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM.** Anonymous *Nutr Rev* 34: 185-7, Jun 76 (Eng) [9] DL/76NOV191

**DOPAMINE EFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING AND LEVER-PRESSING FOR FOOD.** Martin GE, Myers RD *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

**METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS.** Avram MM, Lipner HI, Sadigali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**I.C.1.6 INSULIN, BLOOD**

**[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS]** Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, Jul 76 (Ita) DL/76NOV2

**TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES.** Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitius N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

**ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS.** Berger EG, Moehl P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

**THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN.** Chutorian AM, Nicholson JE *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

**AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN VIEABLE YELLOW OBESIVE MICE (AVY/A).** Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

**PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY.** Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermite M, Vanhaest L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

**ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE.** Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

**INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP.** Weekes TE, Bueno L, Garcia-Villar R *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

**THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS.** Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

**DAILY VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESIVE HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1973 (Eng) DL/76NOV80

**GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT.** Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

**PITUITARY FUNCTION IN PSEUDOCYCESIS.** Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

**NORMAL GLUCAGON RESPONSE TO ARGinine INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

**[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT]** Berland H, Moessner F, Willard D, Freyre E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

**THE CONTROL OF LIPOPROTEIN LIPASE.** PP. 102-10. Cryer A, Davies P, Robinson DS *In Hautvast JGAJ, et al., ed. Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

**RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON.** Gardner LB, Spannake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

**DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS.** Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANING RAT VENTROMEDIAL SYNDROME.** Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT]** Oganian RG,

## Diabetes Literature—Hierarchical Index

### 1.C INSULIN

Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES] Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevaeva OG *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

OBSEVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTRONE STORED BLOOD IN MAN. Miller RN, Engelhard R, Collins JA, Slapolsky E, Landenson JH *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

LACK OF CENTRAL AUTONOMIC REGULATION OF SUBSTRATE DURING EARLY FASTING IN MAN. Brodows RG, Campbell RG, Al-Aziz AJ *Metabolism* 25: 803-7, JUL 76 (Eng) DL/76NOV176

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMATURITY. Kashyap ML, Sivasambu R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghiarda G, Altomonte L, Manna R, Rebuli AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

PROTEIN SPARING PRODUCED BY PROTEINS AND AMINO ACIDS. Anonymous *Nutr Rev* 34: 174-6, Jun 76 (Eng) [5] DL/76NOV190

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

HCS REGULATION DURING PREGNANCY. Prieto CJ, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204

[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT] Kozlowski W *Pol Arch Med Wewn* 56: 45-54, Jul 76 (Pol) DL/76NOV207

ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM. Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER

CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzanski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59: 62-67 Mar 76 (Eng) DL/76NOV241

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L *Scand J Rehabil Med* 1-3, 1976 (Eng) DL/76NOV243

[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS] Moskvichev AM, Shlimovich PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME] Bogatyrev OP, Tishenina RS, Zenovka EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

EFFECTS OF EPINEPHRINE AND THEOPHYLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE. Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

[ACTIVITY OF BLOOD INSULIN IN DIABETES MELLITUS] Litovchenko IuS *Vrach Dela* 105-8, Oct 75 (Rus) DL/76NOV268

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaia KI *Vrach Dela* 76-80, Dec 75 (Rus) DL/76NOV270

[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILK COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM] Kirchgessner M, Roth HP, Schwarz WA Z *Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

SEUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syvalahti E, Erikkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spellacy WN, Buhu WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION. Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO. Kammla RG *Am J Vet Res* 37: 935-8, Aug 76 (Eng) DL/76NOV318

[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

ENDOCRINOPATHY IN THALASSAEMIA MAJOR. McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraai E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV337

A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT. Rennie MJ, Winder WW, Holllosy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

1.C.1.7 INSULIN, URINE

1.C.2 INSULIN, PHYSIOLOGY RELATED

1.C.2.1 INSULIN, PHYSIOLOGY

GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES. Tata JR *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] DL/76NOV42

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE. Hope-Gill HF, Kisselbach AH, Clarke P, Vydellung N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

THE CONTROL OF LIPOPROTEIN LIPASE. PP. 102-10. Cryer A, Davies P, Robinson DS *Intl Hautvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

## Diabetes Literature—Hierarchical Index

### 1.C INSULIN

**CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN.** Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

#### 1.C.2.2 INSULIN, SECRETION

**[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]** Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

**EFFECT OF HEXOSES AND MANNOHEPTULOSE OF CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS.** Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

**THE CONTROL OF INSULIN RELEASE BY SUGARS.** Ashcroft SJ *Ciba Found Symp* 41: 117-39, 1976 (Eng) [58] DL/76NOV37

**THE MODE OF ACTION OF ADENOSINE 3:5-CYCLOC AMP IN THE REGULATION OF INSULIN SECRETION.** Montague W, Howell SL *Ciba Found Symp* 41: 141-58, 1976 (Eng) [33] DL/76NOV38

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

**CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL.** Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

**THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT.** Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

**INSULIN RELEASE IS GLUCOSE ANOMERIC SPECIFIC IN THE HUMAN.** Rossini AA, Soeldner JS *J Clin Invest* 57: 1083-8, Apr 76 (Eng) DL/76NOV102

**ISLET CELL TUMORS OF THE PANCREAS.** PP. 183-7. Selawry HP *In0 Charyull K*, Sudarshan A, ed. *Hormones and cancer.* New York, Stratton, 1976. W3 C162GS 1975h. (Eng) DL/76NOV116

**SOMATOSTATIN AND THE ENDOCRINE PANCREAS.** PP. 127-43. Gerich JE *In0 Labrie F*, et al., ed. *Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. W1 C182M v.3 1976. (Eng) [55] DL/76NOV127

**GLUCOSE ASSIMILATION IN NEONATES.** PP. 165-81. Salle B, Chance GW, Ruitton-Ugiliengo M, Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlik H *In0 Stetson JB, Swyer PR*, ed. *Neonatal intensive care.* St. Louis, Green, 1975. W3 27.1 S989n 1972. (Eng) DL/76NOV131

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT]** Rylova AK *Kardiologiya* 15: 100-3, Sep 75 (Rus) DL/76NOV150

**PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN.** Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

**MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS.** Millward DJ, Nnanyelugo DO, Bates P, Heard CR *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

**THE REGULATION OF INSULIN SECRETION.** Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [814] DL/76NOV235

**[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES]** Anonymous *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275

**THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM.** Beta AL, Gilboe DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

**[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)]** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

**THE EFFECT OF N-ACYLGLUOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT.** Ashcroft SJ, Crossley JR, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

**THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL?** Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

**EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS.** El-Denshary EE, Montague W, Malaisse WJ *Biochem J* 156: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

**POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS.** Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

### 1.C.3 INSULIN, PHARMACOLOGY RELATED

#### 1.C.3.1 INSULIN, PHARMACODYNAMICS

**[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES]** Glants RN, Skovronskaja EV, Vovk GP, Mikolishin LI *Bull Ekspl Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

**PROTEIN PHOSPHORYLATION AND HORMONE ACTION.** Cohen P, Antoniou JF, Nimmo HG, Yeaman SJ *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41

**PEPTIDE METABOLISM.** Anonymous *Ciba Found Symp* 41: 351-69, 1976 (Eng) DL/76NOV45

**EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO.** Packard GC, Randall JG *Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

**BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION.** Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kissebah AH, Clarke P, Vydellington N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

**DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYtic ACTION OF PARATHYROID HORMONE.** Thajchayapong P, Queen SF, McClintock R, Allen DO, Bell NH *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

**INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP.** Weekes TE, Bueno L, Garcia-Villar R *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

**PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES.** Rinaudo MT, Ponzetto C, Curto M, Bettarini PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84

**EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS.** Gospodarowicz D, Wescman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

**THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION.** Stein TP, Leskiw MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID.** PP. 44-8. Sailer S *In0 Hautvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATIONS: INFLUENCE OF ADIPOSE TISSUE METABOLISM.** PP. 30-43. Björntorp P *In0 Hautvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [37] DL/76NOV121

**FACTORS CONTROLLING THE GROWTH OF 3T3 CELLS AND TRANSFORMED 3T3 CELLS.** PP. 777-84. Holley RW *In0 Reich E*, et al., ed. *Proteases and biological control.* Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) DL/76NOV128

**EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY.** Carpenter JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

## Diabetes Literature—Hierarchical Index

### 1.C INSULIN

**CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT.** Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

**ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT.** Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

**EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM.** Anonymous *Nutr Rev* 34: 185-7, Jun 76 (Eng) [9] DL/76NOV191

**DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHESIZING POLYSOMES IN RAT LIVER.** Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

**ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM.** Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

**[SECRETION OF GROWTH HORMONE IN ACROMEGALY]** Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

**[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HAEMOGLOBINURIA (AUTHORS TRANS)]** Angulo P, Fernandez J, Lasierra J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchov II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

**K& TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO.** Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

**THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN.** Pratt GE *Adv Exp Med Biol* 69: 55-75, 1976 (Eng) [59] DL/76NOV300

**POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN.** Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

**EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE.** Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

**CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN.** Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

**GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS.** Whittom PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

**SELECTIVE CONTROL OF THE DEGRADATION OF NORMAL AND ABERRANT PROTEINS IN REUBER H35 HEPATOMA CELLS.** Knowles SE, Ballard FJ *Biochem J* 156: 609-17, 15 Jun 76 (Eng) DL/76NOV372

**GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE.** Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

**KINETIC STUDIES ON THE METABOLISM OF ETHYLmorphine BY ISOLATED HEPATOCYTES FROM ADULT RATS.** Erickson RR, Holtzman JL *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

#### 1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS

#### 1.C.3.3 INSULIN, ADVERSE EFFECTS

**LETTER: INSULIN LIPOTROPHY.** Sachson RA, Field S *JAMA* 236: 820-1, 16 Aug 76 (Eng) DL/76NOV147

**[DRUGS INDUCED HYPOGLYCEMIA]** Dry J, Pradaliar A *Sem Hop Ther* 52: 231-4, Apr 76 (Fre) DL/76NOV245

**SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM.** Vesely DL, Castro A, Levey GS *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

**DIABETES IN CHILDREN.** Ryan P *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

**THE NATURE AND USE OF PURIFIED INSULINS.** Martin FI *Aust Fam Physician* 5: 514-25, May 76 (Eng) DL/76NOV348

#### 1.C.4 HYPERINSULINISM

**PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM.** Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

**HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA.** Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

#### 1.C.4.1 INSULIN COMA

**INITIAL EVALUATION OF THE PATIENT IN COMA OR SHOCK.** PP. 11-8. Goldberg TH *Ind Finsess JC*, ed. *Emergency management of the critical patient.* New York, Stratton, 1975. W1 EM662H v2 1975. (Eng) DL/76NOV118

#### 1.C.5 INSULIN ANTIBODIES

**ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG; THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN.** Hollins PJ, Himsworth RL *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

**DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG.** Hollins PJ, Smith GH, Himsworth RL *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) DL/76NOV33

**ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT.** Kitagawa T, Aikawa T *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) DL/76NOV86

**GLUCOSE ASSIMILATION IN NEONATES.** PP. 165-81. Salle B, Chance GW, Ruition-Ugliengo M, Stalberg E, Steiner DF, Kempler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In* Stetson JB, Swyer PR, ed. *Neonatal intensive care.* St. Louis, Green, 1975. WS 27.1 S989n 1972. (Eng) DL/76NOV131

**LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES.** Schernthaner G, Ludwig H, Mayr WR, Willenseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchov II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

**EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [14C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS.** Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

#### 1.C.6 INSULIN RESISTANCE

**SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM.** Vesely DL, Castro A, Levey GS *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

#### 1.C.7 INSULIN, THERAPY RELATED

##### 1.C.7.1 INSULIN, DIAGNOSTIC USE

**GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION.** PP. 91-106. Kraft JR *In* Hunter OB Jr, ed. *Radioassay clinical concepts.* Skokie, Ill., Searle, 1974. QY 250 S9892r 1974. (Eng) DL/76NOV124

**DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY.** Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

**FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM.** Starkova NT *Sov Med* 104-10, Sept 75 (Rus) DL/76NOV247

**EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genné H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

**INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METAMIDE, AN H-2 HISTAMINE ANTAGONIST.** Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

**EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY.**

## Diabetes Literature—Hierarchical Index

### 1.D GLUCAGON

**PYLOROPLASTY.** Juler GL, Dagradi AE, Stempin SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

**1.C.7.2 INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)**

**1.C.7.3 INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)**

**1.C.8 INSULIN, HISTORY**

**1.D GLUCAGON**

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

**UNUSUAL SPECIFICITIES OF ANTIBODIES TO**  
GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garad JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

**INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE.** Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

**THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON.** O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

**GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETO-RY SYSTEM.** Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

**COVALENT CHROMATOGRAPHY - THE ISOLATION OF TRYPTOPHANYL CONTAINING PEPTIDES BY NOVEL POLYMERIC REAGENTS.** Rubenstein M, Shechter Y, Patchornik A *Biochem Biophys Res Commun* 70: 1257-63, 21 Jun 76 (Eng) DL/76NOV377

**1.D.1 GLUCAGON, BIOCHEMISTRY RELATED**

**1.D.1.1 GLUCAGON, ANALYSIS**

**1.D.1.2 GLUCAGON, METABOLISM**

**SOMATOSTATIN--CLINICAL IMPLICATIONS.** Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

**[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS]** Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

**1.D.1.3 GLUCAGON, BLOOD**

**SOMATOSTATIN--CLINICAL IMPLICATIONS.** Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermite M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

**SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY.** Miyata M, Yamamoto T, Nakao K *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

**SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE.** Deftos LJ, Lorenzi M, Bohanon N, Tsalakian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 203-7, Jul 76 (Eng) DL/76NOV96

**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

**[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT]** Berland H, Moessner F, Willard D, Freys E, Tissier J J *Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

**THE CONTROL OF LIPOPROTEIN LIPASE.** PP. 102-10. Cryer A, Davies P, Robinson DS *Inn Hautvast JGAJ*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

**DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS.** Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

**PLASMA GLUCAGON AFTER KIDNEY EXCLUSION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN EVISCERATED DOGS.** Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV124

**PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM.** Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

**STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA).** O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

**A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT.** Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

**1.D.2 GLUCAGON, PHYSIOLOGY RELATED**

**1.D.2.1 GLUCAGON, PHYSIOLOGY**

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**THE CONTROL OF LIPOPROTEIN LIPASE.** PP. 102-10. Cryer A, Davies P, Robinson DS *Inn Hautvast JGAJ*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

**1.D.2.2 GLUCAGON, SECRETION**

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehé T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

**POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS.** Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

**SOMATOSTATIN AND THE ENDOCRINE PANCREAS.** PP. 127-43. Gerich JE *Inn Labrie F*, et al., ed. *Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) [55] DL/76NOV127

**EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH).** Gill TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV129

**STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA).** O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

**1.D.3 GLUCAGON, PHARMACOLOGY RELATED**

**1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE**

**[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)]** Andel M, Brodán V, Kuhn E *Cas Lek Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

**[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS]** Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

**EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH).** Gill TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV29

**1.D.3.2 GLUCAGON, PHARMACODYNAMICS**

**[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)]** Andel M, Brodán V, Kuhn E *Cas Lek Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

**EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART.** Clark CM Jr *Endocrinology* 99: 23-9, Jul 76 (Eng) DL/76NOV52

## Diabetes Literature—Hierarchical Index

### 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

**THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION.** Gutte PH, Smith E *Gastroenterology* 71: 435-8, Sep 76 (Eng) DL/76NOV61

**PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY.** Ohned A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

**INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP.** Weekes TE, Bueno L, Garcia-Villar R *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsakian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**RETENTION AND DEGRADATION OF  $^{125}\text{I}$ -INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS.** Terri S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID.** pp. 44-8. Saile S *Int Hauvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

**EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY.** Carpentier JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

**ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT.** Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

**RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON.** Gardner LB, Spannake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

**INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE.** Ghambari H, McCull RL *J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

**[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL]** Sakasaki S, Umezawa K, Nishiaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

**[EFFECT OF ANTI-ARRHYTHMIA AGENTS ON THE IMPULSE CONDUCTION TO THE HEART]** Kushakovskii MS *Kardiologiya* 15: 137-45, Sep 75 (Rus) [100] DL/76NOV151

**HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS.** Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

**IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVI-**

TY. Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

**EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF  $^{99}\text{mTc}$  Pertechnetate IN MICE.** Khettry J, Elmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

**EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH).** Gill TS, Khanne SS *Acta Anat (Basel)* 93: 93-100, 1976 (Eng) DL/76NOV291

**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Osnas JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

**K& TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO.** Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

**AUTOPHAGY-RELATED CHANGES OF ARYL-SULPHATASES A AND B IN RAT LIVER LYSOSOMES.** Sanghavi P, Koenig H *Biochem J* 155: 725-8, 1 Jan 76 (Eng) DL/76NOV360

**GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE.** Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

**ACTIVATION BY GTP OF LIVER ADENYLATE CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP.** Kimura N, Nakane K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

**COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLATE CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON.** Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) DL/76NOV380

#### 1.D.3.3 GLUCAGON, TOXICITY

#### 1.D.4 GLUCAGON, THERAPY RELATED

##### 1.D.4.1 GLUCAGON, DIAGNOSTIC USE

**RADIOLOGY NOW. THE COLON PACIFIED.** Simpkins KC *Br J Radiol* 49: 303-5, Apr 76 (Eng) DL/76NOV19

**[PROVOCATION TESTS IN PHEOCHROMOCYTOMA]** Muhlhoff G, Sack H *Med Welt* 27: 1179-81, 11 Jun 76 (Ger) DL/76NOV172

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

##### 1.D.4.2 GLUCAGON, THERAPEUTIC USE

**PROCEEDINGS: EFFECT OF GLUCAGON ON PAIN IN ACUTE PANCREATITIS.** Waterworth TA, Bevan PG *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV325

**PROCEEDINGS: OBSERVATIONS ON ACUTE PANCREATITIS.** Williamson RC *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV326

### 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

#### 1.E.1 BLOOD SUGAR

**OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA.** Inoue M, Kajiyama F, Inada H, Kitabatake A, Hori M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

**BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION.** Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

**GLUCOSE ASSIMILATION IN NEONATES.** pp. 165-81. Salle B, Chance GW, Ruitton-Ugiliwo M, Stalberg E, Steiner DF, Klemmer W, Tager HS, Rubenstein AH, Lermark A, Zuhlike H *Infl Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis, Green, 1975. WS 27.1 S989n 1972. (Eng) DL/76NOV131*

**DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS.** Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

**PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM.** Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

**[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS]** Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

**IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS.** Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

**HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA.** Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204

**[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM]** Dobrzenski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

**OSMOTIC RESISTANCE OF LEUKOCYTES IN PATIENTS WITH ONSET OF DIABETES BEFORE TWENTY-FIVE YEARS.** Marigo S, Bersezio A *Acta Diabetol Lat* 12: 289-95, Sep-Dec 75 (Eng) DL/76NOV284

**EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genne H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

## Diabetes Literature—Hierarchical Index

### 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Siyal R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) \*DL/76NOV287

**THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM.** Betz AL, Gilboe DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

**THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN.** Pratt OE *Adv Exp Med Biol* 69: 55-75, 1976 (Eng) [59] DL/76NOV300

**ENDOCRINOPATHY IN THALASSAEMIA MAJOR.** McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Harc JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE?** Breidahl HD *Aust Fam Physician* 5: 445-51, May 76 (Eng) DL/76NOV345

**THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSIAL-ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS.** PP. 351-83. Yates FE, Maran JW, FERENT WAYS AND, RATES. 000500507 In0 J et al. *ed. Chronobiological aspects of endocrinology.* Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

**DEPENDENCE ON AGE OF METHAMPHETAMINE-PRODUCED CHANGES IN THERMOREGULATION AND METABOLISM.** Estler CJ *Experientia* 31: 1436-7, 15 Dec 75 (Eng) \*DL/76NOV482

**HYDROGEN ION CONCENTRATION AND OXYGEN UPTAKE IN AN ISOLATED CANINE HINDLIMB.** Harke AH *J Appl Physiol* 40: 1-5, Jan 76 (Eng) \*DL/76NOV508

**TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE.** Green H, Bishop P, Houston M, McKillop R, Norman R, Stothart P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

**LETTER: PAINFUL TEETH AND DYSGLYCEMIA.** Ringsdorf WM Jr, Cheraskin E *JAMA* 231: 23-4, 6 Jan 75 (Eng) \*DL/76NOV541

**OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS.** Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

**[STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF STENOSIS DUCTI]** Orelenska MA, Kolesnikov RN *Stomatologija (Mosk)* 54: 85-6, May-Jun 75 (Rus) \*DL/76NOV593

**ON THE MUSCULAR FUEL OF THE AIR SAC IN AN AIR BREATHING FISH.** Thakur RN, Singh BR *Acta Histochem (Jena)* 54: 322-7, 1975 (Eng) \*DL/76NOV605

**GLUCOSE UTILIZATION AND RECYCLING IN PONIES.** Anwer MS, Chapman TE, Gronwall R *Am J Physiol* 230: 138-42, Jan 76 (Eng) \*DL/76NOV623

**LAETIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR.** Ames AC, Cobbold S, Maddock J *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

**CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION.** Lowder SC, Hamet P, Liddle GW *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV646

#### 1.E.1 BLOOD SUGAR, ANALYSIS

**[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]** Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

**TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES.** Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

**STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST.** Sasaki A, Horiuchi N *J Chronic Dis* 29: 129-40, Feb 76 (Eng) DL/76NOV91

**NORMAL GLUCAGON RESPONSE TO ARGinine INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth RB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

**[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT]** Berland H, Moessner F, Willard D, Freyss E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

**GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION.** PP. 91-106. Kraft JR *In0 Hunter OB Jr, ed. Radiosassay0 clinical concepts.* Skokie, Ill., Searle, 1974. QY 250 S9892r 1974. (Eng) DL/76NOV124

**[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT]** Rylova AK *Kardiologija* 15: 100-3, Sep 75 (Rus) DL/76NOV150

**[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT]** Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologija* 15: 91-100, Sep 75 (Rus) DL/76NOV152

**LACK OF CENTRAL AUTONOMIC REGULATION OF SUBSTRATE DURING EARLY FASTING IN MAN.** Brodows RG, Campbell RG, Al-Aziz AJ *Metabolism* 25: 803-7, JUL 76 (Eng) DL/76NOV176

**LETTER: CONTROL OF BLOOD GLUCOSE IN DIABETES.** Anonymous *N Engl J Med* 295: 509-12, 26 Aug 76 (Eng) DL/76NOV184

**GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE.** Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

**HCS REGULATION DURING PREGNANCY.** Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

**[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL]** Gasinska T, Gburek Z *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

**[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME]** Bogatyreva OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

**[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE]** Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaja KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

**GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY.** Tyson JE, Hock RA *Am J Obstet Gynecol* 125: 1009-27, 1 AUG 76 (Eng) DL/76NOV308

**THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR.** Spellacy WN, Buhi WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

**EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO.** Kammla RG *Am J Vet Res* 37: 935-8, Aug 76 (Eng) DL/76NOV318

**EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG.** Mahaffey MB, Anderson NV *Am J Vet Res* 37: 947-52, Aug 76 (Eng) DL/76NOV319

**EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION.** Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

**METHODS OF DIAGNOSING DIABETES MELLITUS.** Burgess JA *Aust Fam Physician* 5: 49-52, Jan-Feb 76 (Eng) DL/76NOV342

**THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON.** O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

**CONTROL OF RAT MAMMARY GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN.** Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

**A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT.** Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

**ENDOCRINE STUDIES IN DEPRESSION.** PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E *In0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

**GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES.** PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzky C, Geck P, Pfeiffer B *In0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395

**TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS**

## Diabetes Literature—Hierarchical Index

### 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

**DURING THE SECOND HALF OF GESTATION.** Randall GC, L'Ecuyer C *Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

**EVALUATION OF A DISCRETE-SAMPLE COMPUTER-DIRECTED CLINICAL ANALYZER.** Forrester RL, Collinge W, Hashimoto P, Worrall J *Clin Chem* 22: 211-6, Feb 76 (Eng) \*DL/76NOV458

**HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS.** Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinney ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

**P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS.** Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng) \*DL/76NOV460

**EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP.** Prior RL *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

**A SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF GLUCOSE IN BLOOD SERUM.** Daines TL, Morse KW *J Chem Educ* 53: 126-7, Feb 76 (Eng) \*DL/76NOV521

**SEVERE SALT POISONING IN AN INFANT.** Saunders N, Balf JW, Laski B *J Pediatr* 88: 258-61, Feb 76 (Eng) \*DL/76NOV534

**THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE.** Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

**OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRTSUTISM.** McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564

**[LETTER: GLUCOSE ANALYSIS IN BLOOD AND SERUM WITH THE BM-TESTMETER]** Nue I, Wulff AM, Bundgaard K *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

**BIOCHEMICAL STUDIES OF THE COLLAPSE SYNDROME IN SUCKLED CALVES.** Barber DM, Doxey DL *Vet Rec* 97: 424-8, 29 Nov 75 (Eng) \*DL/76NOV595

**[SCHNYDERS CORNEAL DYSTROPHY AND HYPERLIPIDEMIA (AUTHORS TRANSL)]** Kaden R, Feurth G *Albrecht von Graefes Arch Klin Ophthalmol* 198: 129-38, 4 Feb 76 (Ger) \*DL/76NOV625

**SURVIVAL OF DOGS SUBJECTED TO PROFOUND HYPOTHERMIA WITH CIRCULATORY SUPPORT.** Zarins CK, Moossa AR, Skinner DB *Arch Surg* 111: 186-9, Feb 76 (Eng) \*DL/76NOV631

**CHANGES IN BLOOD CONSTITUENTS IN RATS ADMINISTERED MORPHINE AND SUBJECTED TO HE-O2 AT 11 ATA.** De Boer B, Tofano M *Aviat Space Environ Med* 47: 151-3, Feb 76 (Eng) \*DL/76NOV635

**A SYSTEM FOR REPORTING ANALYTICAL RESULTS ACCORDING TO THE ACTUAL LEVEL OF THE TESTS EXACTITUDE.** Sobolewski G *Clin Biochem* 8: 409-14, Dec 75 (Eng) \*DL/76NOV647

**EVALUATION OF A REAGENT-STRIP METHOD FOR GLUCOSE IN WHOLE BLOOD, AS COMPARED WITH A HEXOKINASE METHOD.** Stewart TC *Clin Chem* 22: 74-8, Jan 76 (Eng) \*DL/76NOV648

**BIOCHEMICAL AND CLINICAL EFFECTS OF METOLAZONE IN CONGESTIVE HEART FAILURE.** Levey BA, Palmer RF *Curr Ther Res* 18: 641-51, Nov 75 (Eng) \*DL/76NOV650

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAPERITONEAL INFUSIONS OF PROSTGLANDINS.** Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

**1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS**

**[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS]** Palazzuoli V, Gragnoli G, Favilli R, Tangarelli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

**1.E.1.3 BLOOD SUGAR, METABOLISM**

**EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITTED RATS TO AUTONOMIC AGENTS.** Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

**[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCHEMA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)]** Andel M, Brodak V, Kuhn E *Cas Lek Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASES AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitn N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

**SOMATOSTATIN—CLINICAL IMPLICATIONS.** Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

**THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN.** Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copinschi G, Leclercq-Meyer V, Virasoro E, L'Hermitte M, Vanhaest L, Golstein J, Leclercq R, Fery P, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

**ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE.** Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

**THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS.** Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

**DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESIVE HYPERGLYCEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

**CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Sensi S, Capani F *J Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**EFFECT OF PROTEIN INGESTION ON SPANCHIAN AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS.** Wahren J, Felig P, Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

**CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RIH).** PP. 115-25. Besser GM *In Labrie F, et al., ed. Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) DL/76NOV125

**SOMATOSTATIN AND THE ENDOCRINE PANCREAS.** PP. 127-43. Gerich JE *In Labrie F, et al., ed. Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) DL/76NOV127

**RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON.** Gardner LB, Spannake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardi LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMATURITY.** Kashyap ML, Sivasambu R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

**[HYPOGLYCEMIA IN NEONATES FOLLOWING EXCHANGE TRANSFUSION (AUTHORS TRANSL)]** Hervei S *Monatsschr Kinderheilkd* 124: 548-50, Jul 76 (Eng) DL/76NOV178

**MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS.** Millward DJ, Nianyelugo DO, Bates P, Heard CR *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

**ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM.** Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

**TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT.** Brynger H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

**METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY.** Sullivan L *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

**EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE.** Hayashi S

## Diabetes Literature—Hierarchical Index

### 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) \*DL/76NOV259

**METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS.** Avram MM, Ligner HI, Sadigali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) \*DL/76NOV265

**GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS.** Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) \*DL/76NOV289

**GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS.** Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) \*DL/76NOV290

**A NEW STANDARDIZED AND EFFECTIVE METHOD OF INDUCING PARALYSIS WITHOUT ADMINISTRATION OF EXOGENOUS HORMONE IN PATIENTS WITH FAMILIAL PERIODIC PARALYSIS.** Johnsen T *Acta Neurol Scand* 54: 167-72, Aug 76 (Eng) \*DL/76NOV292

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) \*DL/76NOV295

**EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE.** Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) \*DL/76NOV302

**BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN.** Kiehn TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) \*DL/76NOV304

**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulz D, Pönttner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) \*DL/76NOV306

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) \*DL/76NOV310

**EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL).** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *Am Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) \*DL/76NOV321

**METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA).** Schilling E, Loge O *Arzneim Forsch* 26: 354-6, Apr 76 (Eng) \*DL/76NOV381

**CLINICAL TRIAL OF THE ANTIBACTERIAL COMBINATION SULFAMOXOLE/TRIMETHOPRIM (CN 3123)/SIXTH COMMUNICATION: RESULTS OF COMPATIBILITY OF CN 3123 (AUTHORS TRANSL).** Etzel M, Wesenberg W *Arzneim Forsch* 26: 678-83, 1976 (Ger) \*DL/76NOV382

**HOW DOES GLUCOSE ENTER BRAIN CELLS** PP. 126-43. Bachelard HS *In: Ingvar DH, Lassen NA, ed. Brain work: the coupling of function metabolism and blood flow in the brain. Copenhagen, Munksgaard, 1975.* W3 AL36 1974b. (Eng) [35] \*DL/76NOV397

**SOME PHYSIOLOGICAL AND BIOCHEMICAL MEASUREMENTS OVER THE MENSTRUAL CYCLE.** PP. 259-75. Freedman SH, Ramcharan S, Hoag E, Goldfien A *In: Ferin M et al., ed. Biorhythms and human reproduction. New York, Wiley, 1974.* QT 167 B616 1972. (Eng) \*DL/76NOV413

**THE REGULATION OF GLYCOLYSIS IN ERYTHROCYTES.** PP. 195-209. Rapoport SM, Rapoport TA, Heinrich R *In: Keleti T, ed. Mechanism of action and regulation of enzymes. Amsterdam, North-Holland, 1973.* W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV418

**INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES.** Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

**[THE EFFECT OF COLD CARDIOPLEGIA ON MYOCARDIAL METABOLISM]** Vainer EN, Kofanov NN *Biol Nauki* 43-7, 1975 (Rus) \*DL/76NOV442

**[CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMMOBILIZATION]** Platonova RD, Baskakova GM, Chepurnov SA *Biol Nauki* 37-40, 1975 (Rus) \*DL/76NOV443

**[THE ANNUAL GLUCIDO-LIPID CYCLE IN A VARANID OF SENEGAL]** Cisse M, Demaille J C *R Soc Biol (Paris)* 169: 1084-9, 1975 (Fre) \*DL/76NOV451

**USE OF ETHANOL NATURALLY ENRICHED IN CARBON 13 FOR METABOLIC STUDIES** Bricout J, Le Bourhis B, Koziot J *C R Soc Biol (Paris)* 169: 904-11, 1975 (Fre) \*DL/76NOV452

**RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE.** Kahn SB, Cheung T, Lodise R, Brodsky I *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

**[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS]** Ratzmann KP, Paul I, Meyer LW, Muller F *Endocrinologie* 66: 337-45. Kuriyama K, Nakagawa K *In: Huxtable R, Barbeau A, ed. Taurine. New York, Raven Press, 1975.* W3 IN923E 1975t. (Eng) \*DL/76NOV639

**[THE RELATIONSHIP BETWEEN PRE-EXERCITAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY]** Krasnava AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol Zh SSSR* 61: 530-6, Apr 75 (Rus) \*DL/76NOV489

**[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPYMIN. (2) ANALYSIS OF ITS MODE OF ACTION]** Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

**[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY MECHANISM OF THE RAT (AUTHORS TRANSL)]** Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

**ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT.** Feder-spil G, Udeschini G, De Palo C, Sicolo N *Endocrinol Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

**A MECHANISM FOR TOBACCO SMOKE-INDUCED ALLERGY.** Keller KF, Doyle RJ *J Allergy Clin Immunol* 57: 278-82, Mar 76 (Eng) \*DL/76NOV528

**EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS.** Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

**ALTERATIONS IN GLUCOSE KINETICS FOLLOWING THERMAL INJURY.** Wilmore DW, Mason AD, Pruitt BA *Jr Surg Forum* 26: 81-3, 1975 (Eng) \*DL/76NOV591

**[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY]** Brodskaja NI, Zотов ИУВ, Shchedrenko ВВ, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

**ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEYOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT.** Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

**LACK OF THE CORRELATION BETWEEN BIOCHEMICAL EFFECTS ON RATS AND BLOOD CARBOXYHEMOGLOBIN CONCENTRATIONS IN VARIOUS CONDITIONS OF SINGLE ACUTE EXPOSURE TO CARBON MONOXIDE.** Sokal JA *Arch Toxicol (Berl)* 34: 331-6, 18 Dec 75 (Eng) \*DL/76NOV632

**CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA.** Kirshner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) \*DL/76NOV633

**EFFECTS OF ACUTE HEAT STRESS ON TISSUE CARBOHYDRATE IN FASTED RATS.** Harrison MH *Avian Space Environ Med* 47: 165-7, Feb 76 (Eng) \*DL/76NOV636

**ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES.** PP 335-45. Kuriyama K, Nakagawa K *In: Huxtable R, Barbeau A, ed. Taurine. New York, Raven Press, 1975.* W3 IN923E 1975t. (Eng) \*DL/76NOV639

**SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA.** PP 248-59. Carruthers ME, Taggart P, Salpekar PD, Gatt JA *In: Schweizer W, ed. Beta-blockers—present status and future prospects.* Bern, Huber, 1974. OV 132 B562 1974. (Eng) \*DL/76NOV640

**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

**RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID.** Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

**LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD.** Heaton KW, Manning AP, Hartog M *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

**CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL.** Davison TF, Langslow DR *Comp Biochem Physiol* [A] 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM**

## Diabetes Literature—Hierarchical Index

### 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS. Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) DL/76NOV651

SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA. Hardeman MR, Prins HK *Haemostasis* 4: 81-93, 1975 (Eng) DL/76NOV652

**1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS**

**1.E.2 GLUCOSE TOLERANCE TEST**

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIACALUMI] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY. Anonymous *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPO-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyon M, Dusitis N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS. Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN. Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST. Sasaki A, Horiuchi N *J Chronic Dis* 29: 129-40, Feb 76 (Eng) DL/76NOV91

INSULIN RELEASE IS GLUCOSE ANOMERIC SPECIFIC IN THE HUMAN. Rossini AA, Soeldner JS *J Clin Invest* 57: 1083-8, Apr 76 (Eng) DL/76NOV102

GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION. PP. 91-106. Kraft JR *In0 Hunter OB Jr, ed. Radioassay0 clinical concepts. Skokie, Ill., Searle, 1974. QY 250 S982r 1974.* (Eng) DL/76NOV124

GLUCOSE ASSIMILATION IN NEONATES. PP. 165-81. Salle B, Chance GW, Ruiton-Ugliengo M, Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In0 Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis, Green, 1975. WS 27.1 S989n 1972.* (Eng) DL/76NOV131

[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT] Rylova AK *Kardiologiya* 15: 100-3, Sep 75 (Rus) DL/76NOV150

[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD] Nowakowski T, Wasikowa R *Kinderarzt Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

[ORAL GLUCOSE TOLERANCE TEST WITH A MIXTURE OF OLIGOSACCHARIDES AFTER PARTIAL GASTRECTOMY (AUTHORS TRANSL)] Wepler R, Rommel K *Klin Wochenschr* 54: 633-5, 1 Jul 76 (Ger) DL/76NOV157

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Almonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelevitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

HCS REGULATION DURING PREGNANCY. Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederbaum SD, Glass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESIVE DIABETIC PATIENTS. Kesson CM, Ireland JT *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM. Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blomoe G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME] Bogatryev OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING. Goto Y, Kakizaki M, Masaki N *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) DL/76NOV258

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant Iu, Teslenko VG, Lebedev SV, Krupchitskaya KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS. Gommers A, Genne H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

A NEW STANDARDIZED AND EFFECTIVE METHOD OF INDUCING PARALYSIS WITHOUT ADMINISTRATION OF EXOGENOUS HORMONE IN PATIENTS WITH FAMILIAL PERIODIC PARALYSIS. Johnsen T *Acta Neurol Scand* 54: 167-72, Aug 76 (Eng) DL/76NOV292

THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spellacy WN, Buhi WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG. Mahaffey MB, Anderson NV *Am J Vet Res* 37: 947-52, Aug 76 (Eng) DL/76NOV319

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLORPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Begele HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

METHODS OF DIAGNOSING DIABETES MELLITUS. Burgess JA *Aust Fam Physician* 5: 49-52, Jan-Feb 76 (Eng) DL/76NOV342

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XLYOXY) VALERIC ACID THERAPY. Kissebah AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

**1.E.3 HYPERGLYCEMIA**

GLUCOSE ASSIMILATION IN NEONATES. PP. 165-81. Salle B, Chance GW, Ruiton-Ugliengo M, Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In0 Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis, Green, 1975. WS 27.1 S989n 1972.* (Eng) DL/76NOV131

BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIA DIABETIC MEN. Kiehm TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT. Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**1.E.3.1 HYPERGLYCEMIA, BLOOD**

**1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED**

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freyss E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

**1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS**

## Diabetes Literature—Hierarchical Index

### 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

**METABOLIC DISORDERS CAUSING COMA AND SHOCK.** PP. 175-85. Taylor AL. In *Emergency management of the critical patient*. New York, Stratton, 1975. WI EM662H v2 1975. (Eng) DL/76NOV119

**SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM.** Vesely DL, Castro A, Levey GS. *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

#### 1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS

#### 1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY

#### 1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

**EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS.** Tanabe S, Kameoka K. *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV6

**HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION.** Machado MC, Monteiro da Cunha JE, Margarido NF, Bacchella T, Goncalves L, Raia AA. *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM. *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

**NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS.** Goto Y, Toyota T, Masuda M, Komatsu K, Kuriaki A. *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

**[POSTOPERATIVE GLYCEMIC REACTIONS AND THEIR PROGNOSIS IN PATIENTS WITH CONCOMITANT DIABETES MELLITUS]** Myshkin KI, Lisenkov VP. *Vestn Khr Iu* 116: 97-9, May 76 (Rus) DL/76NOV266

**SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM.** Vesely DL, Castro A, Levey GS. *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

#### 1.E.3.7 HYPERGLYCEMIA, METABOLISM

**SOMATOSTATIN--CLINICAL IMPLICATIONS.** Anonymous. *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESIVE HYPERGLYCEMIC MICE.** Best L, Atkins TW, Matty AJ. *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

**GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE.** Zuliani U, Novarini A, Bonetti A, Caronni S, Coruzzi P, Cavitorta A. *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

**THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN.** Pratt OE. *Adv Exp Med Biol* 69: 55-75, 1976 (Eng) [59] DL/76NOV300

#### 1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY

**INFLUENCE OF HYPERGLYCEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS.** Markiewicz K, Lukin M. *Digestion* 14: 188-91, 1976 (Eng) DL/76NOV59

#### 1.E.3.9 HYPERGLYCEMIA, URINE

#### 1.E.4 GLYCOSURIA

**TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS.** Schiott CR, Loe H, Briner WW. *J Periodont Res* 11: 158-64, Jun 76 (Eng) DL/76NOV140

**24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS.** Levinsky RJ, Trompeter RS, Grant DB. *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331

#### 1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED

#### 1.E.4.2 GLYCOSURIA, COMPLICATIONS

**TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY.** Anonymous. *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

**IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS.** Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP. *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

**HYPOPHOSPHATAEMIC OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS.** Smith R, Lindenbaum RH, Walton RJ. *Q J Med* 69: 387-400, Jul 76 (Eng) DL/76NOV225

**SEPTIC COMPLICATIONS OF TOTAL PARENTERAL NUTRITION. A FIVE YEAR EXPERIENCE.** Sanders RA, Sheldon GF. *Am J Surg* 132: 214-20, Aug 76 (Eng) DL/76NOV314

#### 1.E.4.3 GLYCOSURIA, DIAGNOSIS

**ON THE RELATION OF GENITAL TO URINARY TRACT INFECTIONS. DIAGNOSTIC PROBLEMS.** PP. 193-9. Fritz H. In *Ø Danielsson D, et al., ed. General infections and their complications*. Stockholm, Almqvist & Wiksell, 1975. WC 140 5988p 1974. (Eng) DL/76NOV117

**METHODS OF DIAGNOSING DIABETES MELLITUS.** Burgess JA. *Aust Fam Physician* 5: 49-52, Jan-Feb 76 (Eng) DL/76NOV342

**HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE?** Breidahl HD. *Aust Fam Physician* 5: 445-51, May 76 (Eng) DL/76NOV345

#### 1.E.4.4 GLYCOSURIA, DRUG THERAPY

#### 1.E.4.5 GLYCOSURIA, ENZYMOLOGY

#### 1.E.4.6 GLYCOSURIA, ETIOLOGY

**[EFFECT OF DIABETES MELLITUS ON A PERSONALITY DEVELOPMENT DISORDER—AND ITS INFLUENCE ON THE COURSE OF THE DISEASE]** Schweizer T. *Z Klin Psychol Psychother* 24: 68-75, 1976 (Ger) DL/76NOV276

#### 1.E.4.7 GLYCOSURIA, METABOLISM

#### 1.E.4.8 GLYCOSURIA, OCCURRENCE

#### 1.E.5 GLYCOSURIA, RENAL

**TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY.** Anonymous. *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

#### 1.E.6 HYPOGLYCEMIA

**GASTROINTESTINAL HORMONES.** Sullivan SN. *Can J Surg* 19: 295-310, Jul 76 (Eng) DL/76NOV26

**OBSERVATIONS ON SEVERE RHESUS HAEMOLYTIC DISEASE.** Matthews TG, Nolan G, O'Sullivan BJ. *Ir Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

#### 1.E.6.1 HYPOGLYCEMIA, BLOOD

#### 1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

**ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG: THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN.** Hollins PJ, Hinsworth RL. *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

**EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN.** Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C. *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y. *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

**CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Sensi S, Capani F. *J Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

**[DRUGS INDUCED HYPOGLYCEMIA]** Dry J, Pradilier A. *Sam Hop Ther* 52: 231-4, Apr 76 (Fre) DL/76NOV245

**ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION.** Samuel AM, Kadival GV, Patel BD, Desai AG. *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

**SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM.** Vesely DL, Castro A, Levey GS. *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

#### 1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS

**THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN.** Chutorian AM, Nicholson JF. *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

**WHEN LOSS OF CONSCIOUSNESS IS NOT CAUSED BY EPILEPSY.** Bercaw BL. *Geriatrics* 31: 95-7, Jul 76 (Eng) DL/76NOV65

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

[THERAPY OF ALCOHOLISM] Bueno F, Mezey E. *Internist (Berlin)* 17: 362-9, Jul 76 (Ger) DL/76NOV82

SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA. Millard PR, Jerome DW, Millward-Sadler GH. *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

METABOLIC DISORDERS CAUSING COMA AND SHOCK. PP. 175-85. Taylor AL. *In 0 Findess JC, ed. Emergency management of the critical patient. New York, Stratton, 1975. WI EM662H v2 1975.* (Eng) DL/76NOV119

[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH] Kashulina AP, Tereshchenko IP. *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS] Hankiewicz J, Scieszkowa M. *Wiad Lek* 29: 1311-5, 15 Jul 76 (Pol) DL/76NOV273

[HEMIHYPERTROPHY WITH WIEDEMANN-BECKWITH-SYNDROME (AUTHORS TRANSL)] Schenck RD. *Z Orthop* 114: 354-60, Jun 76 (Ger) DL/76NOV277

DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCAEMIA. Hutton RA, Macnab AJ, Rivers RP. *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329

SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM. Vesely DL, Castro A, Levey GS. *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

#### 1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS

INITIAL EVALUATION OF THE PATIENT IN COMA OR SHOCK. PP. 11-8. Goldberg TH. *In 0 Findess JC, ed. Emergency management of the critical patient. New York, Stratton, 1975. WI EM662H v2 1975.* (Eng) DL/76NOV118

#### 1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

LETTER: DIAZOXIDE-DIPHENYLHYDANTOIN INTERACTION. Petro DJ, Vannucci RC, Kulik HE. *J Pediatr* 89: 331-2, Aug 76 (Eng) DL/76NOV139

DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCAEMIA. Hutton RA, Macnab AJ, Rivers RP. *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329

#### 1.E.6.6 HYPOGLYCEMIA, ETIOLOGY

GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE. Rosenbloom AL, Frias JL. *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10

SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA. Millard PR, Jerome DW, Millward-Sadler GH. *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

[HYPOGLYCAEMIA IN NEONATES FOLLOWING EXCHANGE TRANSFUSION (AUTHORS TRANSL)] Herweij S. *Monatsschr Kinderheilkd* 124: 548-50, Jul 76 (Eng) DL/76NOV178

JAMAICAN VOMITING SICKNESS. BIOCHEMICAL INVESTIGATION OF TWO CASES. Tanaka K, Keay EA, Johnson BN. *Engl J Med* 295: 461-7, 26 Aug 76 (Eng) DL/76NOV182

EDITORIAL: THE UNRIPE AKEE - FORBIDDEN FRUIT. Bressler R. *N Engl J Med* 295: 500-1, 26 Aug 76 (Eng) DL/76NOV183

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L. *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204

DIABETES IN CHILDREN. Ryan P. *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

#### 1.E.6.7 HYPOGLYCEMIA, METABOLISM

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Lehý T, Accary JP, Roza C. *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M. *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

EDITORIAL: THE UNRIPE AKEE - FORBIDDEN FRUIT. Bressler R. *N Engl J Med* 295: 500-1, 26 Aug 76 (Eng) DL/76NOV183

THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM. Betz AL, Gilbow DD, Drewes LR. *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG. *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

#### 1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavignini F, Raggi U, Micossi P, Di Landro A, Invitti C. *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y. *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

INHIBITION OF BASAL AND STIMULATED GASTRIC H&P AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METAMIDE, AN H-2 HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI. *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

#### 1.E.6.9 HYPOGLYCEMIA, THERAPY

### 1.F DIABETES

#### 1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

#### 1.F.2 DIABETES MELLITUS

PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT. Lum BO. *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) DL/76NOV112

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM. *J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

CONSIDERATIONS IN EXAMINATION: AN OVERVIEW FOR THE DENTAL PROFESSION. Calderone CV. *RJ Dent J* 8: 16-8 CONTD, Sep 75 (Eng) DL/76NOV238

[EFFECT OF DIABETES MELLITUS ON A PERSONALITY DEVELOPMENT DISORDER - AND ITS INFLUENCE ON THE COURSE OF THE DISEASE] Schweitzer T. *Z Klin Psychol Psychother* 24: 68-75, 1976 (Ger) DL/76NOV276

CLINICAL TYPES OF DIABETES MELLITUS. Zimmet P. *Aust Fam Physician* 5: 228-31, Mar 76 (Eng) DL/76NOV343

#### 1.F.2.1 DIABETES MELLITUS, JUVENILE

PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. I. IDENTIFYING THE PROBLEM PATIENT. Lum BO. *J Am Diet Assoc* 69: 157-61, Aug 76 (Eng) DL/76NOV111

[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD] Nowakowski T, Wasikowa R. *Kinderarztl Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON. Birkbeck JA, Truswell AS, Thomas BJ. *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV332

#### 1.F.3 DIABETES, BIOCHEMISTRY RELATED

##### 1.F.3.1 DIABETES, METABOLISM

SOMATOSTATIN—CLINICAL IMPLICATIONS. Anonymous. *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

[ALCOHOLISM AND METABOLIC DISEASES] Vogelberg KH. *Dtsch Med Wochenschr* 101: 1199-202, 6 Aug 76 (Ger) [51] DL/76NOV48

INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS. Olefsky JM, Reaven GM. *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN. Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH. *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS. Terrell S, Steiner DF. *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

EFFECT OF PROTEIN INGESTION ON SPLENCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS. Wahren J, Felig P,

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

[GLUCOSE AND THE REDUCING SUGARS OF THE HUMAN BILE] Paris J, Salembier Y, Gerard A, Samso G *Med Chir Dig* 4 suppl 1: 31-4, 1975 (Fre) DL/76NOV162

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY  $\text{H}-\text{LYSINE}$  INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

ESTIMATION AND INTERPRETATION ON PLASMA ZINC FRACTIONS. Burns RR, Fell GS *Scott Med J* 21: 153-4, Jul 76 (Eng) DL/76NOV244

[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS] Bogoliubov VM, Ershova LM, Kaplan MA, Syzgantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE. Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS. Avram MM, Lipner HI, Sadiqali R, Lance M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreyfus C, Stachow A *Ann Dermatol Syphiligr (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS. Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN. Poulsen HL *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV353

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [ $^{14}\text{C}$ ]GLUCOSE INTO HEXOSE PHOSPHATES, URIDYL DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS. Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA). Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381

1.F.3.2 DIABETES, ENZYMOLOGY

LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE. Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV397

[AMYLASE DETERMINATION IN URINE] Lorentz K, Koch CD *Dtsch Med Wochenschr* 101: 1261-2, 20 Aug 76 (Ger) DL/76NOV409

PHOSPHOFRUCTOKINASE AND SUCCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE. Iannuzzo CD, Armstrong RB *Born Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV478

CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT. Murakami H *Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES. Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 569-579, May 76 (Eng) DL/76NOV141

NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESE AND NONOBESE DIABETICS. Belfiore F, LoVecchio L, Borzi V *Metabolism* 25: 723-5, JUL 76 (Eng) DL/76NOV173

THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES. Cedola N, Cabarrou A, Auciello N, Doria I, Ponce de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

1.F.3.3 DIABETES, BLOOD

SOMATOSTATIN--CLINICAL IMPLICATIONS. Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST. Sasaki A, Horiochi N *J Chronic Dis* 29: 129-40, Feb 76 (Eng) DL/76NOV91

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warriet JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION. PP. 91-106. Kraft JR *In* Hunter OB Jr, ed. *Radioassay of clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 59892 1974. (Eng) DL/76NOV124

SOMATOSTATIN AND THE ENDOCRINE PANCREAS. PP. 127-43. Gerich JE *In* Labrie F, et al., ed. *Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) [55] DL/76NOV127

[DIABETES MELLITUS AND LIPID METABOLISM (AUTHORS TRANSL)] Watanabe T *Jpn J Clin Pathol* 24: 211-7, Mar 76 (Jpn) DL/76NOV148

LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES. Boge W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

LETTER: CONTROL OF BLOOD GLUCOSE IN DIABETES. Anonymous *N Engl J Med* 295: 509-12, 26 Aug 76 (Eng) DL/76NOV184

[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL] Gasinska T, Gburke Z *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF BREEDING. Goto Y, Kakizaki M, Masaki N *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) DL/76NOV258

[POSTOPERATIVE GLYCEMIC REACTIONS AND THEIR PROGNOSIS IN PATIENTS WITH CONCOMITANT DIABETES MELLITUS] Myshkin KI, Lisenkov VP *Vestn Khir 116*: 97-9, May 76 (Rus) DL/76NOV266

[ACTIVITY OF BLOOD INSULIN IN DIABETES MELLITUS] Litovchenko luS *Vrach Delo* 105-8, Oct 75 (Rus) DL/76NOV268

OSMOTIC RESISTANCE OF LEUKOCYTES IN PATIENTS WITH ONSET OF DIABETES BEFORE TWENTY-FIVE YEARS. Marigo S, Bersezio A *Acta Diabetol Lat* 12: 289-95, Sep-Dec 75 (Eng) DL/76NOV284

SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN. Poulsen HL *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV353

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schönbein H, Kline KA, Volger E *Bibl Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS. Volger E, Schmid-Schönbein H, Mehnert H *Bibl Anat* 13: 97-8, 1975 (Eng) DL/76NOV357

[CLINICAL TRIAL OF THE ANTIBACTERIAL COMBINATION SULFAMOXOLE/TRIMETHOPRIM (CN 3123)/SIXTH COMMUNICATION: RESULTS OF COMPATIBILITY OF CN 3123 (AUTHORS TRANSL)] Etzel M, Wiesenber W *Arzneim Forsch* 26: 678-83, 1976 (Ger) DL/76NOV382

1.F.3.4 DIABETES, URINE

24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS. Levinsky RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331

DIABETES IN CHILDREN. Ryan P *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

1.F.4 DIABETES, PHYSIOPATHOLOGY

ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY. Hoare EM, Barnes AJ, Dormandy JA *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

**CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS.** Bennett T, Hosking DJ, Hampton JR. *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

**EFFECT OF PROTEIN INGESTION ON SPLANCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS.** Wahren J, Felig P, Hagenfeld L. *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

**ESOPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS.** Stewart IM, Hosking DJ, Preston BJ, Atkinson M. *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

**OSMOTIC RESISTANCE OF LEUKOCYTES IN PATIENTS WITH ONSET OF DIABETES BEFORE TWENTY-FIVE YEARS.** Marigo S, Bersezio A. *Acta Diabetol Lat* 12: 289-95, Sep-Dec 75 (Eng) DL/76NOV284

**EVALUATION OF THE USE OF MICROCIRCULATORY FINDINGS IN THE ANALYSIS OF CLINICAL DISEASE.** Redisch W, Rouen LR, Terry EN, Clauss RH. *Bibl Anat* 13: 362-3, 1975 (Eng) DL/76NOV352

**CAPILLARY FILTRATION COEFFICIENT IN SHORT AND LONG-TERM DIABETES.** Nielsen SL, Poulsen HL. *Bibl Anat* 13: 78-9, 1975 (Eng) DL/76NOV354

**FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE.** Palm T, Nielsen SL, Lassen NA, Sander EH. *Bibl Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

**MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS.** Volger E, Schmid-Schönbein H, Mehner H. *Bibl Anat* 13: 97-8, 1975 (Eng) DL/76NOV357

**1.F.5 DIABETES, IMMUNOLOGY**

**INHERITANCE OF DIABETES MELLITUS.** Zonana J, Rimoin DL. *N Engl J Med* 295: 603-5, 9 Sep 76 (Eng) DL/76NOV180

**LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES.** Schernthaner G, Ludwig H, Mayr WR, Willvonseder R. *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS.** Mirozou J, Seignalet J, Selam JL, Lapinski H, Jaffiol C. *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchov II, Shishcheva AC, Ditzov SP, Andreev DC, Sirakov LM. *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

**1.F.6 DIABETES COMPLICATIONS AND PATHOLOGY**

**1.F.6.1 DIABETIC KETOACIDOSIS**

**1.F.6.1.1 ACIDOSIS, DIABETIC**

**DIABETIC KETOALKALOSIS: A READILY MISDIAGNOSED ENTITY.** Lim KC, Walsh CH. *Br Med J* 2: 19, 3 Jul 76 (Eng) DL/76NOV20

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. I. IDENTIFYING THE PROBLEM PA-**

**TIENT.** Lum BO. *J Am Diet Assoc* 69: 157-61, Aug 76 (Eng) DL/76NOV111

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT.** Lum BO. *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) DL/76NOV112

**METABOLIC DISORDERS CAUSING COMA AND SHOCK. PP. 175-85.** Taylor AL. *In: Findeiss JC, ed. Emergency management of the critical patient.* New York, Stratton, 1975. WI EM662H v2 1975. (Eng) DL/76NOV119

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heinz W, Richter I, Ludtke E, Robbe K, Rahn A, Schmalz H. *Kinderarzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA]** Berces G, Garas Z. *Orv Hetil* 117: 1753-6, 18 Jul 76 (Hung) DL/76NOV199

**[DIABETIC COMA ASSOCIATED WITH ACUTE PANCREATITIS]** Ticele I, Fekete T. *Rev Med Intern [Med Intern]* 28: 211-6, May-Jun 76 (Rum) DL/76NOV232

**[HYPEROSMOLAR COMA IN DIABETES MELLITUS]** Saalieva RZ. *Zdravookhr Kirog* 47-9, May-Jun 76 (Rus) DL/76NOV281

**DIABETES IN CHILDREN.** Ryan P. *Aust Fam Physician* 3: 452-8, May 76 (Eng) DL/76NOV346

**1.F.6.2 DIABETIC ANGIOPATHIES**

**THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS.** Shalash BA, El-Hoshy M, Saad A, El-Fiki AF. *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

**CLINICO-PATHOLOGICAL STUDY OF AN ORGANIZED PLAQUE IN EXUDATIVE DIABETIC MACULOPATHY.** Begg IS, Rootman J. *Can J Ophthalmol* 11: 197-202, Jul 76 (Eng) DL/76NOV205

**CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST.** Hearse DJ, Stewart DA, Brainbridge MV, Chir B. *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

**REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE.** Hamby RI, Sherman L, Mehta J, Aintablian A. *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

**RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE.** Ducimetiere P, Warnet JM, Richard JL. *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

**[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION]** Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O. *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164

**[SURGICAL INDICATIONS IN ARTERITIS OF THE LOWER EXTREMITIES IN 70-YEAR-OLD PATIENTS]** Firouz Abadie H. *Phlebologie* 28: 483-91, Jul-Sep 75 (Fre) DL/76NOV221

**[INCIDENCE OF CORONARY MACROANGIOPATHY IN CLINICALLY MANIFEST DIABETES MELLITUS]** Leon A, Mincu I. *Rev Med Intern [Med Intern]* 28: 41-8, Jan-Feb 76 (Rum) DL/76NOV230

**[URICEMIA IN DIABETES MELLITUS: VARIATIONS AND SIGNIFICANCE]** Dutu A, Hincu N, Hoinarescu E. *Rev Med Intern [Med Intern]* 28: 227-34, May-Jun 76 (Rum) DL/76NOV234

**[NECESSITY OF ACTIVE TREATMENT OF LATENT FORMS OF DIABETES MELLITUS IN PATIENTS WITH ARTERIOSCLEROSIS]** Khaletskii ME. *Ter Arkh* 48: 116-20, 1976 (Rus) DL/76NOV253

**HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY.** Bar-

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

bossa J, Noreen H, Emma L, Goetz F, Simmons R, de Leiva A, Najar J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

**NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS.** Goto Y, Toyota T, Masuda M, Komatsu K, Kuriiki A *Tohoku J Exp Med* 119: 135-46, Jun 76 (Eng) DL/76NOV260

[CONCOMITANT DISEASES IN MACROFOCAL MYOCARDIAL INFARCT] Danish Gla, Guseva NP *Vrach Delo* 72-6, Dec 75 (Rus) DL/76NOV269

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant Iu, Teslenko VG, Lebedev SV, Krupchitskaya KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

[INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS] Hankiewicz J, Scieszkowa M *Wiad Lek* 29: 1311-5, Jul 76 (Pol) DL/76NOV273

**LOWER EXTREMITY AMPUTATIONS IN THE COUNTY OF AALBORG 1961-1971. POPULATION STUDY AND FOLLOW-UP.** Christensen S *Acta Orthop Scand* 47: 329-34, Jun 76 (Eng) DL/76NOV293

**LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE.** Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

**SURGICAL TREATMENT OF MAL PERFORANS.** Singer A *Arch Surg* 111: 964-8, Sep 76 (Eng) DL/76NOV340

[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT] Aumailley M, Razaka G, Lartue J, Bricaud H C *R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) DL/76NOV449

**EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS.** Mjos OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) DL/76NOV457

**LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS.** Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorge NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) DL/76NOV463

**DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS.** Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) DL/76NOV529

**RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM.** Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) DL/76NOV577

**FATTY STREAKING OF HUMAN ARTERIES. A PRELIMINARY STUDY.** Velican D, Velican C *Rev Roum Med Intern* 13: 25-9, 1975 (Eng) DL/76NOV582

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM

**LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS** Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) DL/76NOV597

**EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS.** Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117-23, 1976 (Eng) \*DL/76NOV611

**EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS.** Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

**EFFECTS OF LIPOLYTIC AND INOTROPIC STIMULATION ON MYOCARDIAL ISCHEMIC INJURY.** Kjekshus JK *Acta Med Scand [Suppl]* 35-42, 1976 (Eng) \*DL/76NOV614

**FACTORS MODIFYING ISCHEMIC ALTERATIONS OF VENTRICULAR FUNCTION AND METABOLISM IN THE INTACT WORKING SWINE HEART.** Liedtke AJ *Acta Med Scand [Suppl]* 57-64, 1976 (Eng) \*DL/76NOV615

**RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS.** Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) \*DL/76NOV616

**ARTERIAL METABOLISM IN PRIMATES.** Portman OW, Illingworth DR *Primates Med* 9: 145-223, 1976 (Eng) [349] \*DL/76NOV672

**ATHEROSCLEROSIS IN RHESUS AND CYNOGLOSSUS MONKEYS.** Armstrong ML *Primates Med* 9: 16-40, 1976 (Eng) [671] \*DL/76NOV673

**EXPERIMENTAL ATHEROSCLEROSIS IN THE BABOON.** McGill HC Jr, Mott GE, Bramblett CA *Primates Med* 9: 41-65, 1976 (Eng) [98] \*DL/76NOV675

**ATHEROSCLEROSIS IN OLD WORLD MONKEYS.** Clarkson TB, Hamm TE, Bullock BC, Lehner ND *Primates Med* 9: 66-89, 1976 (Eng) \*DL/76NOV676

**I.F.6.3 DIABETIC NEUROPATHIES**

**SIMPLE FIBRE ELECTROMYOGRAPHY FOR MOTOR UNIT STUDY IN MAN.** PP. 79-92. Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lerman A, Zuhlik H *In: Shahani M, ed. The motor system* 6 *neurophysiology and muscle mechanisms.* Amsterdam, Elsevier, 1976. WE 102 M919 1974. (Eng) DL/76NOV130

**DIABETIC NEUROPATHY: CLINICAL MANIFESTATIONS, DIAGNOSIS, AND MANAGEMENT.** Lovrien F, Shipp CJ *Nebr Med J* 61: 218-22, Jul 76 (Eng) DL/76NOV186

**DIABETIC AMYOTROPHY--A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED.** Donovan WH, Sumi SM *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

**SURGICAL TREATMENT OF MAL PERFORANS.** Singer A *Arch Surg* 111: 964-8, Sep 76 (Eng) DL/76NOV340

**I.F.6.5 DIABETIC RETINOPATHY**

**ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY.** Hoare EM, Barnes AJ, Dormandy JA *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

**THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS.** Shalash BA, El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

**PROLIFERATIVE DIABETIC RETINOPATHY.** Siam Al *Bull Ophthalmol Soc Egypt* 68: 353-63, 1975 (Eng) DL/76NOV15

**THE MANAGEMENT OF DIABETIC TRACTION DETACHMENT.** Zayed A *Bull Ophthalmol Soc Egypt* 68: 409-13, 1975 (Eng) DL/76NOV16

**THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY.** Zaretskaya RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV17

**[NON-INFLAMMATORY DISEASES OF THE RETINA]** Fechner PU *Buech Augenarzt* 67: 261-73, 1976 (Ger) DL/76NOV24

**CLINICO-PATHOLOGICAL STUDY OF AN ORGANIZED PLAQUE IN EXUDATIVE DIABETIC MACULOPATHY.** Begg IS, Rootman J *Can J Ophthalmol* 11: 197-202, Jul 76 (Eng) DL/76NOV25

**SOME PLAIN TALK ON DIABETIC RETINOPATHY.** Fine SL *Sight Sav Rev* 46: 3-9, Spring 76 (Eng) DL/76NOV246

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

**NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS.** Goto Y, Toyota T, Masuda M, Komatsu K, Kuriiki A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

**A REASSESSMENT OF THE PROGNOSIS OF DIABETIC PATIENTS TREATED BY CHRONIC HEMODIALYSIS (CHD).** Comty CM, Kjellisen D, Shapiro FL *Trans Am Soc Artif Intern Organs* 22: 404-11, 1976 (Eng) DL/76NOV264

**DIABETIC RETINOPATHY. A CLINICAL AND MORPHOLOGICAL STUDY.** Zrustova M, Vrabec F, Rostapil J *Acta Diabetol Lat* 12: 272-88, Sep-Dec 75 (Eng) DL/76NOV283

**A SELECTED REVIEW OF CURRENT RETINAL RESEARCH AND STUDY.** Cohen J *Am J Optom Physiol Opt* 53: 318-28, Jun 76 (Eng) [38] DL/76NOV311

**THE ARGON LASER AND DIABETIC RETINOPATHY.** Massin M, Laborde-Berranger A *Arch Ophthalmol (Paris)* 35: 735-46, Oct 75 (Fre) DL/76NOV341

**ISOLATED ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES.** Gray BN, Watkins E Jr *Aust J Exp Biol Med Sci* 54: 57-70, Feb 76 (Eng) DL/76NOV350

**1.F.6.6 OTHER COMPLICATIONS OF DIABETES**

**[TORSADES DE POINTES (CASE REPORTS)]** Calabrese P, Franchini G, Di Biase M, Latorre A, Lenti ML, Antonelli G *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

**TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY.** Anonymous *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

**CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS.** Bennett T, Hosking DJ, Hampton JR *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

**REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE.** Hamby RI, Sherman L, Mehta J, Aintablian A *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

**ALCOHOLISM AND METABOLIC DISEASES]** Vogelberg KH *Dtsch Med Wochenschr* 101: 1199-202, 6 Aug 76 (Ger) [51] DL/76NOV48

**CRITICAL REVIEW OF THE USE OF CAROTID BOVINE GRAFTS FOR HEMODIALYSIS.** Zincke H *Eur Surg Res* 8: 189-95, 1976 (Eng) DL/76NOV53

**CHRONICALLY ILL CHILDREN. A PSYCHOLOGICALLY AND EMOTIONALLY DEVIANT POPULATION.** Tavorima JB, Kastner LS, Slater PM, Watt SJ *Abnorm Child Psychol* 4: 99-110, 1976 (Eng) DL/76NOV110

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. I. IDENTIFYING THE PROBLEM PATIENT.** Lum BO *J Am Diet Assoc* 69: 157-61, Aug 76 (Eng) DL/76NOV111

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT.** Lum BO *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) DL/76NOV112

**[MEDICAL COUNTERINDICATIONS FOR PREGNANCY]** Monnier JC *Lille Med* 20 spec no: 242-6, 1975 (Fre) DL/76NOV168

**TWO MINUTES WITH DIABETES.** Whitehouse FW *Med Times* 104: 67, 70, Aug 76 (Eng) DL/76NOV171

**LETTER: CONTROL OF BLOOD GLUCOSE IN DIABETES.** Anonymous *N Engl J Med* 295: 509-12, 26 Aug 76 (Eng) DL/76NOV184

**[ADVANCES IN NEPHROLOGY. KIDNEY FAILURE IN PATIENTS WITH DIABETES MELLITUS]** Siciński A *Pol Arch Med Wewn* 56: 81-91, Jul 76 (Pol) DL/76NOV208

**[IMMUNOLOGICAL DISORDERS IN DYSGAM-MAGLOBULINEMIA TYPE VII IN A DIABETIC PATIENT]** Rogala E, Felus E, Wegiel A *Pol Tyg Lek* 31: 793-5, 10 May 76 (Pol) DL/76NOV209

**[INCIDENCE AND COURSE OF DIABETES AS WELL AS ITS COMPLICATIONS IN ERITHEA UNDER CONDITIONS OF MAL-NUTRITION AND IRREGULAR INSULIN TREATMENT]** Szadkowski M *Pol Tyg Lek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

**[HYPOPHOSPHATEMIA OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS]** Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng) DL/76NOV225

**[URINARY INFECTION AND DIABETES MELLITUS. CLINICAL ASPECTS, TREATMENT AND COMPLICATIONS. CONCLUSIONS]** Gomez-Arnau JI, Rojas-Hidalgo E *Rev Clin Esp* 141: 441-8, 15 Jun 76 (Spa) DL/76NOV224

**[URICEMIA IN DIABETES MELLITUS: VARIATIONS AND SIGNIFICANCE]** Dutu A, Hincu N, Hoinarescu E *Rev Med Intern [Med Intern]* 28: 227-34, May-Jun 76 (Rum) DL/76NOV234

**[DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS]** Roed-Petersen K, Thayssen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

**[RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE]** Thayssen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

**[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS]** Bogoliubov VM, Ershova LM, Kaplan MA, Syrgantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

**[INNECESSITY OF ACTIVE TREATMENT OF LATENT FORMS OF DIABETES MELLITUS IN PATIENTS WITH ARTERIOSCLEROSIS]** Khaletska ME *Ter Arkh* 48: 116-20, 1976 (Rus) DL/76NOV253

**NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS.** Goto Y, Toyota T, Masuda M, Komatsu K, Kuriiki A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

**[CONCOMITANT DISEASES IN MACROFOCAL MYOCARDIAL INFARCT]** Danish Gla, Guseva NP, Vrach Delo 72-6, Dec 75 (Rus) DL/76NOV269

**[RESULTS OF SURGICAL TREATMENT OF UROLITHIASIS IN DIABETICS]** Fryczkowski M, Skop B *Wiad Lek* 29: 1073-7, 15 Jun 76 (Pol) DL/76NOV272

**[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES]** Anonymous *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275

**[EFFECT OF DIABETES MELLITUS ON A PERSONALITY DEVELOPMENT DISORDER - AND ITS INFLUENCE ON THE COURSE OF THE DISEASE]** Schweitzer T *Z Klin Psychol Psychother* 24: 68-75, 1976 (Ger) DL/76NOV276

**[LETTER: OSTEOPOROSIS-CAUSED BY DECREASED BLOOD CIRCULATION IN THE BONES]** Krokowski E, Fricke M *Z Orthop* 114: 430-1, Jun 76 (Ger) DL/76NOV278

**[HYPEROSMOLAR COMA IN DIABETES MELLITUS]** Saalieva RZ *Zdravookhr Khrig* 47-9, May-Jun 76 (Rus) DL/76NOV281

**[A CASE OF MUCORMYCOSIS]** Daele JJ, De Vos JL *Acta Otorhinolaryngol Belg* 29: 1030-40, 1975 (Fre) DL/76NOV294

**[MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS]** Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

**[SIGMOIDOVESICOCEUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON]** Parsa F, Passaro E *Am J Surg* 132: 105-7, Jul 76 (Eng) DL/76NOV312

**[SOMOGYI EFFECT IN PATIENT WITH HYPOPIITUITARISM]** Vesely DL, Castro A, Levey GS *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

**[CANCER OF THE PANCREAS. EPIDEMIOLOGY AND EXPERIMENTAL CARCINOGENESIS]** Pelfrene AF *Arch Fr Mal App Dig* 65: 161-8, Mar 76 (Fre) [46] DL/76NOV334

**[DIABETIC AMYOTROPHY--A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED]** Donovan WH, Sumi SM *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

**[ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS]** Diethelm AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

**[HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT]** Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**1.F.6.7 DIABETES PATHOLOGY**

**[SOMATOSTATIN--CLINICAL IMPLICATIONS]** Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

**[THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS]** Emmrich P, Fuchs U, Heinke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

**[MORPHOLOGY OF ESOPHAGEAL AND GASTRIC MUCOSA IN DIABETICS]** Włodarczyk D *Pol Tyg Lek* 31: 829-32, 17 May 76 (Pol) DL/76NOV210

**[EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE]** Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

**[THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES]** Cedola N, Cabarrus A, Auciello N, Doria I, Ponce de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

**[CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS]** Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

EVALUATION OF THE USE OF MICROCIRCULATORY FINDINGS IN THE ANALYSIS OF CLINICAL DISEASE. Redisch W, Rouen LR, Terry EN, Clauss RH *Bibl Anat* 13: 362-3, 1975 (Eng) DL/76NOV352

#### 1.F.6.8 PREGNANCY IN DIABETES

OBSERVATIONS ON SEVERE RHESUS HAEMOLYTIC DISEASE. Matthews TG, Nolan G, OSullivan BJ *Ir Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA. Millard PR, Jerome DW, Millward-Sadler GH *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

[THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCIES] Tchobroutsky C, Cedard L, Rouvillois JL, Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freyre E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

HEALTH RATIONALE FOR FAMILY PLANNING. pp. 117-55. Omran AR *In 6th Block LS*, ed. Population change—a strategy for physicians. Washington, Assoc of American Medical Colleges, 1975. HV 766.1618p 1974. (Eng) DL/76NOV115

CLINICAL ASPECTS OF PLACENTAL LACTOGEN DETERMINATIONS. pp. 131-40. Chard T *In 6th Hunter OB Jr*, ed. *Radiosayof clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 59892r 1974. (Eng) DL/76NOV123

THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATER- NAL DIABETES MELLITUS. Emrich P, Fuchs U, Heinkel P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

[MEDICAL COUNTERINDICATIONS FOR PREGNANCY] Monnier JC *Lille Med 20 spec no*: 242-6, 1975 (Fre) DL/76NOV168

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST- MATURITY. Kashyap ML, Sivasambu R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levin PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 31s-32s, Jul 76 (Eng) DL/76NOV192

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 38s-41s, Jul 76 (Eng) DL/76NOV193

IMPROVED GLUCOSE CONTROL IN NON- HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daata TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelevitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

PLACENTAL CHANGES IN GESTATIONAL DIABETES. AN ULTRASTRUCTURAL STUDY. Jones CJ, Fox H *Obstet Gynecol* 48: 274-80, Sep 76 (Eng) DL/76NOV197

HCS REGULATION DURING PREGNANCY. Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS. Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY. Tyson JE, Hock RA *Am J Obstet Gynecol* 125: 1009-27, 1 AUG 76 (Eng) DL/76NOV308

ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION. Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS] Primicerio M, Ploitti G, Montemurro A, Moneta E, Bompiani A *Ann Obstet Gynecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schönbein H, Kline KA, Volger E *Bibl Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION. Randall GC, L'Eucaly C *Biol Neonate* 28: 74-82, 1976 (Eng) DL/76NOV445

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS. Lotan E, Adler JH *Tijdschr Diergeneeskd* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATUREN DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)] Holzl VM, Lutjeh D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

LACTIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR. Ames AC, Cobbold S, Maddock J *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

### 1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

#### 1.F.7.1 DIABETES, OCCURRENCE

[INCIDENCE OF DIABETES IN PRIMARY GLAUCOMA] Sindlerova E *Cesk Oftalmol* 32: 192-8, Jun 76 (Cze) DL/76NOV29

[GENETIC HETEROGENEITY AND MEDICO-GENETIC COUNSELING IN DIABETES MELLITUS] Liberman IS *Klin Med (Mosk)* 53: 29-36, Oct 75 (Rus) DL/76NOV159

[INCIDENCE AND COURSE OF DIABETES AS WELL AS ITS COMPLICATIONS IN ERITREHA UNDER CONDITIONS OF MAL-NUTRITION AND IRREGULAR INSULIN TREATMENT] Szadkowski M *Pol Tyg Lek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

DIABETES MELLITUS. A REPORT FROM THE AUSTRALIAN GENERAL PRACTITIONER MORBIDITY AND PRESCRIBING SURVEY 1969-1974. Dunstone MW *Aust Fam Physician* 5: 479-80, May 76 (Eng) DL/76NOV347

#### 1.F.7.2 DIABETES, ETIOLOGY

[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA] Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Sfirilea V, Tudor P, Moise T *Rev Ig [Pneumofiziol]* 25: 39-42, Jan-Mar 76 (Rum) DL/76NOV237

[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS] Moskvichev AM, Shliomovitch PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

[CATAMINISTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS] Bock R, Wieczorek V, Dachsel R *Z Aerzl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

#### 1.F.7.3 DIABETES, CONGENITAL

#### 1.F.7.4 DIABETES, FAMILIAL AND GENETIC

[GENETIC HETEROGENEITY AND MEDICO-GENETIC COUNSELING IN DIABETES MELLITUS] Liberman IS *Klin Med (Mosk)* 53: 29-36, Oct 75 (Rus) DL/76NOV159

LETTER: DIABETES MELLITUS, CHROMOSOMAL ABERRATION, AND MALIGNANCY. Shaw JF, Kansal PC, Gatti RA *Lancet* 2: 315, 7 Aug 76 (Eng) DL/76NOV166

INHERITANCE OF DIABETES MELLITUS. Zonana J, Rimoin DL *N Engl J Med* 295: 603-5, 9 Sep 76 (Eng) DL/76NOV180

LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES. Schernthaler G, Ludwig H, Mayr WR, Willponseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

## Diabetes Literature—Hierarchical Index

**RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS.** Page MM, Asmal AC, Edwards CR. *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

**PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING.** Goto Y, Kakizaki M, Masaki N. *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) DL/76NOV258

**EFFECS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE.** Hayashi S, Sakaguchi T. *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

### 1.F.7.5 PREDIABETIC STATE

**STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST.** Sasaki A, Horiuchi N. *J Chronic Dis* 29: 129-40, Feb 76 (Eng) DL/76NOV91

**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH. *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

**[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD]** Nowakowski T, Wasikowa R. *Kinderarztl Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

**[BIOCHEMICAL FORM OF A PARANEOPLASTIC CUSHINGS SYNDROME (AUTHORS TRANSL)]** Strohfeldt P. *Munch Med Wochenschr* 118: 883-4, 2 Jul 76 (Ger) DL/76NOV179

**INHERITANCE OF DIABETES MELLITUS.** Zonana J, Rimoin DL. *N Engl J Med* 295: 603-5, 9 Sep 76 (Eng) DL/76NOV180

**HCS REGULATION DURING PREGNANCY.** Prieto JC, Serrano-Rios M. *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

### 1.F.8 DIABETES, DIAGNOSIS RELATED

#### 1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

#### 1.F.8.2 DIABETES, DIAGNOSIS

**GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION.** PP. 91-106. Kraft JR. In: *Hunter OB Jr, ed. Radiosassay of clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 S9892r 1974. (Eng) DL/76NOV124

**IGLOMERULAR FILTRATION RATE IN DIABETIC CHILDREN MEASURED BY ISOTOPE METHOD** Drexler M, Ortwein V. *Orv Hetil* 117: 1878-83, 1 Aug 76 (Hung) DL/76NOV200

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Hare JW. *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**METHODS OF DIAGNOSING DIABETES MELLITUS.** Burgess JA. *Aust Fam Physician* 5: 49-52, Jan-Feb 76 (Eng) DL/76NOV342

**CLINICAL TYPES OF DIABETES MELLITUS.** Zimmet P. *Aust Fam Physician* 5: 228-31, Mar 76 (Eng) DL/76NOV343

**DIABETES IN CHILDREN.** Ryan P. *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

### 1.F.9 DIABETES, THERAPY RELATED

#### 1.F.9.1 DIABETES, PREVENTION AND CONTROL

#### 1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY

##### 1.F.9.2.1 OBESITY IN DIABETES

**[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS]** Pagliano FM, Bombara R, Giraldi B, Visca U. *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

**[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA]** Berces G, Garai Z. *Orv Hetil* 117: 1753-6, 18 Jul 76 (Hung) DL/76NOV199

**PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESIVE DIABETIC PATIENTS.** Kesson CM, Ireland JT. *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

##### 1.F.9.2.2 GLUCOSE, THERAPEUTIC USE

**EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS.** Tanabe S, Kameoka K. *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV6

**OBSEVATIONS ON SEVERE RHESUS HAEMOLYTIC DISEASE.** Matthews TG, Nolan G, OSullivan BJ. *Ir Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

**SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS.** Sladek T, Flikka J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarek B. *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

**[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT]** Dimitrije CG, Manu P, Karassi A, Draganić M, Gavrilic F, Nicolau V, Russ G, Serban I. *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

**DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCEMIA.** Hutton RA, Macnab AJ, Rivers RP. *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329

**LACTIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR.** Ames AC, Cobbold S, Maddock J. *Br Med J* 4: 611-3, 13 Dec 75 (Eng) DL/76NOV645

**METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE.** Jeejeebhoy KN, Anderson GH, Nahkoda AF, Greenberg GR, Sanderson I, Marliis EB. *J Clin Invest* 57: 125-36, Jan 76 (Eng) DL/76NOV659

**[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY]** Opitz K. *Med Monatsschr* 29: 530-4, Dec 75 (Ger) DL/76NOV668

##### 1.F.9.2.3 DIET

### 1.F DIABETES

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardis LL, Goldman JK. *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERURICEMIA IN THE RAT.** Spencer HW, Yarger WE, Robinson RR. *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

**DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHESIZING POLYSOMES IN RAT LIVER.** Nakanishi S, Tanabe T, Horikawa S, Numa S. *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

**METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY.** Sullivan L. *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

**[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES]** Anonymous. *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275

**ENDOCRINE AND METABOLIC DISEASE. OBESITY.** Munro JF. *Br Med J* 1: 388-90, 14 Feb 76 (Eng) \*DL/76NOV447

**[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT]** Aumailler Y, Razaka G, Larue J, Bricaud H. *C R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) \*DL/76NOV449

**PLASMA CARNITINE AND BODY COMPOSITION.** Cederblad G. *Clin Chim Acta* 67: 207-12, 1 Mar 76 (Eng) \*DL/76NOV461

**DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS.** Moore MC, Guzman MA, Schilling PE, Strong JP. *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

**MAINTENANCE REQUIREMENT AND ENERGETIC EFFICIENCY OF LEAN AND OBESIVE ZUCKER RATS.** Deb S, Martin RJ, Hershberger TV. *J Nutr* 106: 191-7, Feb 76 (Eng) \*DL/76NOV533

**THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET.** Evans E, Stock AL, Yudkin J. *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

**EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBESIVE RATS.** Koletsis S, Puterman DI. *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

**EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESIVE MIDDLE-AGED WOMEN.** Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB. *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

**ATHEROSCLEROSIS IN RHESUS AND CYNOLOGUS MONKEYS.** Armstrong ML. *Primates Med* 9: 16-40, 1976 (Eng) [67] \*DL/76NOV673

**REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS.** Strong JP, Eggen DA, Stary HC. *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

**ATHEROSCLEROSIS IN OLD WORLD MONKEYS.** Clarkson TB, Hamm TE, Bullock BC, Lehner ND *Primates Med* 9: 66-89, 1976 (Eng) \*DL/76NOV676

#### 1.F.9.2.4 DIABETIC DIET

**PRINCIPLES OF DIET FOR DIABETICS.** Chisholm D *Aust Fam Physician* 5: 349-50, Apr 76 (Eng) DL/76NOV344

**HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE?** Bredahl HD *Aust Fam Physician* 5: 445-51, May 76 (Eng) DL/76NOV345

**DIABETES IN CHILDREN.** Ryan P *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

#### 1.F.9.2.5 DIETARY CARBOHYDRATES

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATIONS INFLUENCE OF ADIPOSE TISSUE METABOLISM.** PP. 30-43. Björntorp P *Inn Hauvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [37] DL/76NOV121

**SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY.** Cederbaum SD, Blaas JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

**BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN.** Kiehn TG, Anderson JW, Ward K *J Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

**CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON.** Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV332

**Possible INTERRELATIONSHIP BETWEEN METABOLITE FLUX AND APPETITE.** PP. 115-25. Sullivan AC, Tricari J *Inn Novin D et al., ed. Hunger* [basic mechanisms and clinical implications. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) DL/76NOV407

**DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS.** Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

**ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET.** Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

**THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET.** Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

**ON LYOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT.** Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

**LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD.** Heaton KW, Manning AP, Hartog M *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

**METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE.** Jeejeebhoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliss EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

**EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO.** Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

#### 1.F.9.2.6 DIETARY FATS

**[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN]** Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

**[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES]** Anonymous *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275

**CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON.** Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV332

**INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL.** Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

**[EFFECT OF DIETARY FATTY ACIDS WITH TRANS-DOUBLE BONDS]** Thiele OW *Hipokrates* 46: 247-9, Jun 75 (Ger) \*DL/76NOV505

**DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS.** Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

**COMPREHENSIVE EVALUATION OF FATTY ACIDS IN FOODS. V. UNHYDROGENATED FATS AND OILS.** Brignoli CA, Kinsella JE, Weihrauch JL *J Am Diet Assoc* 68: 224-9, Mar 76 (Eng) \*DL/76NOV530

**MAINTENANCE REQUIREMENT AND ENERGETIC EFFICIENCY OF LEAN AND OBESITY ZUCKER RATS.** Deb S, Martin RJ, Hershberger TV *J Nutr* 106: 191-7, Feb 76 (Eng) \*DL/76NOV533

**EFFECT OF COLD STRESS ON RAPSEED OIL-FED RATS.** Hulata HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

**ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET.** Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

**THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CAR-**

**BOHYDRATE DIET.** Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

**MORPHOLOGICAL EFFECTS OF RAPSEED OIL IN RATS. I. SHORT-TERM STUDIES.** Engfeldt B, Brunius E *Acta Med Scand [Suppl]* 152-6, 1975 (Eng) \*DL/76NOV609

**PHYSIOPATHOLOGICAL EFFECTS OF RAPSEED OIL: A REVIEW.** Borg K *Acta Med Scand [Suppl]* 5-13, 1975 (Eng) [88] \*DL/76NOV610

**THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS.** Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

**RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID.** Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

**METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE.** Jeejeebhoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliss EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

#### 1.F.9.2.7 CYCLAMATES

#### 1.F.9.2.8 SACCHARIN

### 1.F.9.3 DIABETES, INSULIN AND THERAPY

#### 1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

**TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES.** Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

**[INTRAVENOUS SELF ADMINISTRATION OF INSULIN IN THE RAT]** Jouhanneau J *C R Acad Sci [D] (Paris)* 282: 1685-8, 10 May 76 (Fre) DL/76NOV30

**THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION.** Stein TP, Leskiw MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

**ANAPHYLACTOID REACTION TO SINGLE-COMPONENT PORK INSULIN.** Goldman RA, Lewis AE, Rose LI *JAMA* 236: 1148-9, 6 Sep 76 (Eng) DL/76NOV146

**EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genne H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

**DIABETIC AMYOTROPHY--A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED.** Donovan WH, Sumi SM *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

#### 1.F.9.3.2 INSULIN, THERAPEUTIC USE

**TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES.** Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

**OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA.** Inoue M, Kajiyama F, Inada H, Kitabatake A, Hori M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

**SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS.** Sladek T, Filkova J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbaneck E, Vasko J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

**THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN-DEPENDENT DIABETIC PREGNANCIES.** Tchobroutsky C, Cedard L, Rouvillois JL, Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

**RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD.** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lüdtke E, Robbe K, Rahm A, Schmale H *Kinderarzt Praxis* 44: 235-40, May 76 (Ger) DL/76NOV155

**IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS.** Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

**INCIDENCE AND COURSE OF DIABETES AS WELL AS ITS COMPLICATIONS IN ERITHEA UNDER CONDITIONS OF MAL-NUTRITION AND IRREGULAR INSULIN TREATMENT.** Szadkowski M *Pol Tyfek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *J Q Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

**EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT.** Dimitriu CG, Manu P, Karassi A, Dragomocici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

**DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS.** Roed-Petersen K, Thayssen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

**RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE.** Thayssen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

**[DRUGS INDUCED HYPOGLYCEMIA]** Dry J, Pradalier A *Sem Hop Ther* 52: 231-4, Apr 76 (Fre) DL/76NOV245

**EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS.** Bogoliubov VM, Ershova LM, Kaplan MA, Syzgantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchev II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

**BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN.** Kiehm TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

**GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY.** Tyson JE, Hock RA *Am J Obstet Gynecol* 125: 1009-27, 1 Aug 76 (Eng) DL/76NOV331

**24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS.** Levinsky RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**DIABETES IN CHILDREN.** Ryan P *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

**THE NATURE AND USE OF PURIFIED INSULINS.** Martin FI *Aust Fam Physician* 5: 514-25, May 76 (Eng) DL/76NOV348

#### 1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY

##### 1.F.9.4.1 ANTIDIABETICS

##### 1.F.9.4.2 TOLBUTAMIDE

**THE CONTROL OF INSULIN RELEASE BY SUGARS.** Ashcroft SJ *Ciba Found Symp* 41: 117-39, 1976 (Eng) [58] DL/76NOV37

**TERATOGENIC EFFECT OF TOLBUTAMIDE ON THE DEVELOPMENT OF THE SEA URCHIN EMBRYO (PARACENTROTUS LIVIDUS LAMARCK).** Hagstrom BE, Lonning S *Experientia* 32: 744-6, 15 Jun 76 (Eng) DL/76NOV56

**PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS.** Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

**COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN.** Assandri A, Perazzi A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

**[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION]** Castel A, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

**[NECESSITY OF ACTIVE TREATMENT OF LATENT FORMS OF DIABETES MELLITUS IN PATIENTS WITH ARTERIOSCLEROSIS]** Khaletsii ME *Ter Arkh* 48: 116-20, 1976 (Rus) DL/76NOV253

**[UNIVERSITY GROUP DIABETES PROGRAM. THE UGDP INVESTIGATION REMAINS CLINICALLY UNACCEPTABLE]** Aarseth S *Tidsskr Nor Laegeforen* 96: 1148, 10 Aug 76 (Nor) DL/76NOV255

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTA-**

**MIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saigil U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Siyal R, Simha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalhti E, Eerikila R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

**EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLORPLASTY.** Juler GL, Dagrad AE, Stempien SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

**[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)]** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *Acta Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

**[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT]** Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

**EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS.** El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

#### 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

**LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES.** Bogie W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

**[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS]** Pagliano FM, Bombara R, Giraldo B, Visco U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

#### 1.F.9.4.4 PHENFORMIN

**LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES.** Bogie W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

**PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESIVE DIABETIC PATIENTS.** Kesson CM, Ireland JT *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

**PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY.** Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

#### 1.F.9.4.5 OTHER BIGUANIDES

**[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN]** Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

**ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS.** Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

**TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS.** Schiott CR, Loe H, Briner WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) DL/76NOV140

**[COMBINATION OF ORAL HYPOGLYCEMIC AGENTS]** Decoula M *Lille Med* 21 spec no: 263-5, 1976 (Fre) DL/76NOV170

**HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE?** Bredahl HD *Aust Fam Physician* 5: 445-51, May 76 (Eng) DL/76NOV345

**[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY]** Opitz K *Med Monatsschr* 29: 530-4, Dec 75 (Ger) \*DL/76NOV668

#### 1.F.9.5 DIABETES DRUG THERAPY

**CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RH).** PP. 115-25. Besser GM *In* Labrie F, et al., ed. *Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) DL/76NOV125

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbie K, Rahn A, Schmahl H *Kinderaerztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES.** Bogie W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

**[HYPOGLYCEMIC SULFAMIDES]** Martin-Linquette A *Lille Med* 21: 369-73, Apr 76 (Fre) DL/76NOV169

**[COMBINATION OF ORAL HYPOGLYCEMIC AGENTS]** Decoula M *Lille Med* 21 spec no: 263-5, 1976 (Fre) DL/76NOV170

**[INCIDENCE AND COURSE OF DIABETES AS WELL AS ITS COMPLICATIONS IN ERITREMA UNDER CONDITIONS OF MAL-NUTRITION AND IRREGULAR INSULIN TREATMENT]** Szadkowski M *Pol Tyg Lek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

**DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS.** Roed-Petersen K, Thaysen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

**RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE.** Thaysen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

**[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS]** Bogoliubov VM, Ershova LM, Kaplan MA, Syzgantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

**[NECESSITY OF ACTIVE TREATMENT OF LATENT FORMS OF DIABETES MELLITUS IN PATIENTS WITH ARTERIOSCLEROSIS]** Khaletskii ME *Ter Arkh* 48: 116-20, 1976 (Rus) DL/76NOV253

**[UNIVERSITY GROUP DIABETES PROGRAM. THE UGDP INVESTIGATION REMAINS CLINICALLY UNACCEPTABLE]** Aarseth S *Tidsskr Nor Laegeforen* 96: 1148, 10 Aug 76 (Nor) DL/76NOV255

**[ORAL ANTI-DIABETICS—DANGEROUS DRUGS FOR DIABETICS]** Jervell J *Tidsskr Nor Laegeforen* 96: 1149, 10 Aug 76 (Nor) DL/76NOV256

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOBLE-BLIND TRIAL]** Lindberg IF, Christoffersen EM, Kuusisto A, Lohdahl K, Sagli U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchev II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

**BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN.** Kiehn TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

**24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS.** Levinsky RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331

**PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY.** Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

**HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE?** Bredahl HD *Aust Fam Physician* 5: 445-51, May 76 (Eng) DL/76NOV345

**THE NATURE AND USE OF PURIFIED INSULINS.** Martin FI *Aust Fam Physician* 5: 514-25, May 76 (Eng) DL/76NOV348

#### 1.F.9.6 DIABETES THERAPY

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbie K, Rahn A, Schmahl H *Kinderaerztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY.**

Tyson JE, Hock RA *Am J Obstet Gynecol* 125: 1009-27, 1 AUG 76 (Eng) DL/76NOV308

**PROCEEDINGS: ISOLATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS IN RAT AND MONKEY.** Ballinger W *Ann R Coll Surg Engl* 58: 327, Jul 76 (Eng) DL/76NOV327

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**DIABETES IN CHILDREN.** Ryan P *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

**THE CARE OF DIABETES MELLITUS AT A COMMUNITY HEALTH CENTRE.** Smithurst BA *Aust Fam Physician* 5: 545-9, May 76 (Eng) DL/76NOV349

#### 1.F.9.7 DIABETES, RADIOGRAPHY

#### 1.F.9.8 DIABETES, SURGERY

**TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT.** Brynger H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

**PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES.** Lundgren G, Arnep P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

**SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

**ISOLATED ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES.** Gray BN, Watkins E Jr *Aust J Exp Biol Med Sci* 54: 57-70, Feb 76 (Eng) DL/76NOV350

#### 1.F.9.9 DIABETES, MORTALITY

**TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY.** Anonymous *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

**RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE.** Thaysen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

**[EXPEDIENCY OF STUDYING MULTIPLE CAUSES OF DEATH]** Sorokin ES *Vrach Delo* 96-9, Dec 75 (Rus) DL/76NOV271

#### 1.F.10 DIABETES, EXPERIMENTAL

##### 1.F.10.1 DIABETES, CHEMICALLY INDUCED

**LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE.** Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

**PHOSPHOFRUCTOKINASE AND SUCCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE.** Ianuzzo CD, Armstrong RB *Biochim Biophys Res* 8: 244-5, May 76 (Eng) DL/76NOV78

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

**RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS.** Terris S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

**PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES.** Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) DL/76NOV141

**SHORT-TERM CULTURE OF ADULT PAN-CREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

**EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS.** Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

**THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS.** Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

**PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS.** Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

#### 1.F.10.2 ALLOXAN DIABETES

##### 1.F.10.2.1 ALLOXAN DIABETES, BLOOD

##### 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

##### 1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

##### 1.F.10.2.4 ALLOXAN DIABETES, METABOLISM

**ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES.** Glants RN, Skovronskaja EV, Vovk GP, Mikolishin LI *Bull Eksp Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

**PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES.** Rinaudo MT, Ponzetto C, Curto M, Betta PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84

**DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHESIZING POLYSOMES IN RAT LIVER.** Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

**PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS.** Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

##### 1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

**[ANIMAL EXPERIMENTAL STUDIES ON PERIODONTAL CHANGES IN ALLOXAN DIABETES]** Bienengraber V, Tillmann K *Zahn Mund Kieferheilkd* 64: 260-6, 1976 (Eng) DL/76NOV280

#### 1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

**EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITHEC RATS TO AUTONOMIC AGENTS.** Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

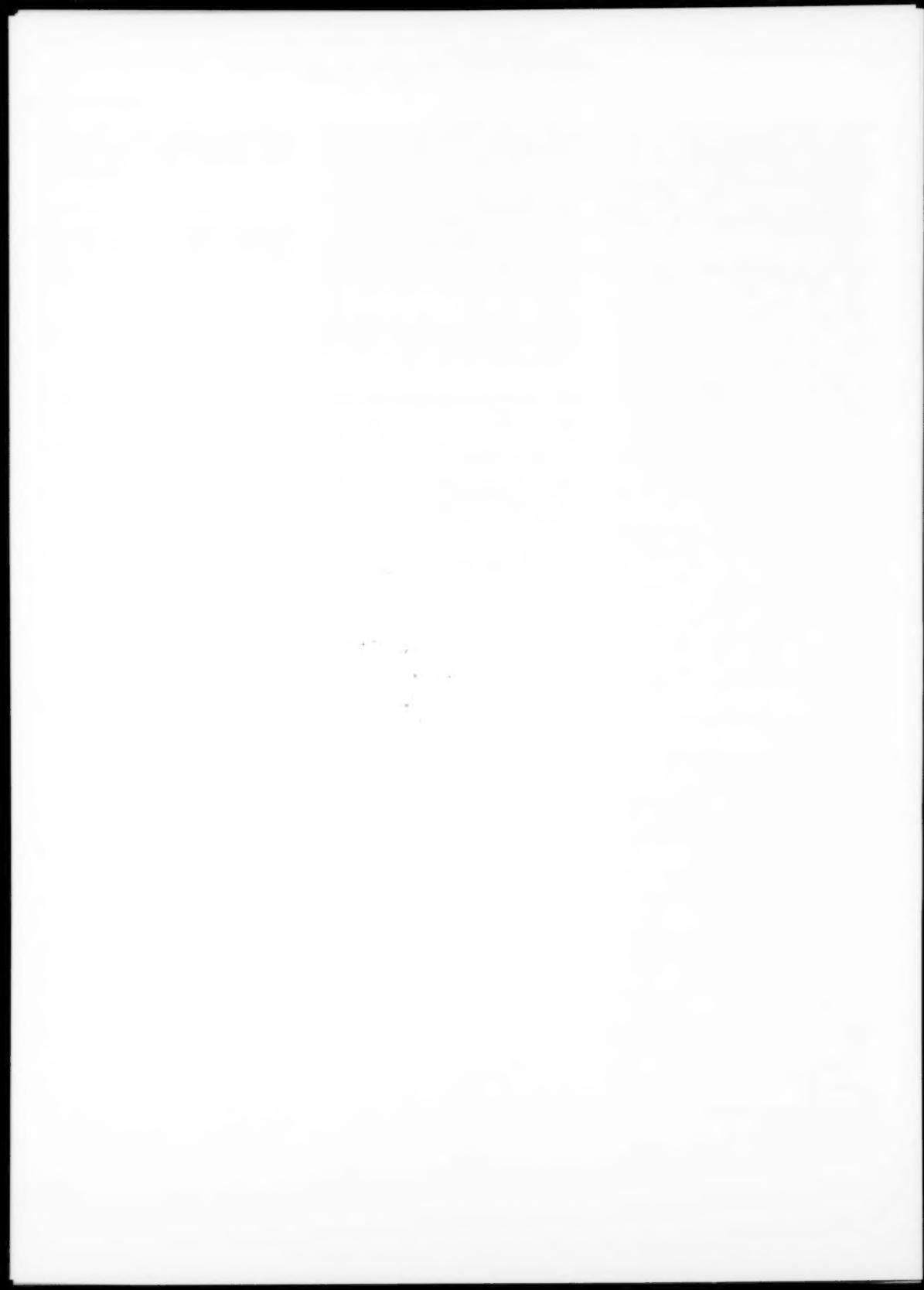
**REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS.** Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

### 1.F.11 DIABETES, VETERINARY

**SPONTANEOUS DIABETES MELLITUS IN A TURTLE.** Frye FL, Dutra FR, Carney JD, Johnson B *Vet Med Small Anim Clin* 71: 935-9, Jul 76 (Eng) DL/76NOV267

**EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG.** Mahaffey MB, Anderson NV *Am J Vet Res* 37: 947-52, Aug 76 (Eng) DL/76NOV319

### 1.F.12 DIABETES, HISTORY



## SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

### 2.A ENDOCRINE PANCREAS

#### 2.A.1 ISLETS (SEE SEC. 1.A)

#### 2.A.2 INSULIN (SEE SEC. 1.C)

#### 2.A.3 GLUCAGON (SEE SEC. 1.D)

### 2.B ADRENAL GLANDS

GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT. Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

#### 2.B.1 ADRENAL CORTEX

#### 2.B.2 ADRENAL CORTEX HORMONES

ADRENOCORTICOSTEROIDS AND CORTICOESTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES). Strand FL *BioScience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION] Iudayev NA, Afanogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [100] \*DL/76NOV601

#### 2.B.2.1 GLUCOCORTICOIDS

ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME. Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

[EFFECT OF ANTI-ARRHYTHMIA AGENTS ON THE IMPULSE CONDUCTION TO THE HEART] Kushakovskii MS *Kardiologii* 15: 137-45, Sep 75 (Rus) [100] DL/76NOV151

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

#### 2.B.2.1.1 CORTISONE

KINETIC STUDIES ON THE METABOLISM OF ETHYLMORPHINE BY ISOLATED HEPATOCYTES FROM ADULT RATS. Erickson RR, Holtzman JL *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

#### 2.B.2.1.2 HYDROCORTISONE

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSES] Palazzuoli V, Gragnoli G, Favilli R, Tanganello I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermitte M, Vanhaest L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

ENTERIC HORMONES AND INSULIN RELEASE IN ADDISON'S DISEASE. Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE. Ghanbari H, McCarl RL *J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

ENDOCRINOPATHY IN THALASSAEMIA MAJOR. McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whitton PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

ENDOCRINE STUDIES IN DEPRESSION. PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS. PP. 371-95. Weitzman ED, Hellman L *In* Ferin M et al., ed. *Biorythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [56] \*DL/76NOV415

THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSAL-ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS. PP. 351-83. Yates FE, Maran JW, Ferent WAYS AND, RATES. 0005005T *In* Aschoff J et al., ed. *Chronobiological aspects of endocrinology*. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Paisi M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION. Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME. Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525

OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRTSUTISM. McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION. Lower SC, Hamet P, Liddle GW *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV646

#### 2.B.2.1.3 OTHER GLUCOCORTICOIDS

Lipoprotein Lipase in Rat Lung. EFFECT OF DEXAMETHASONE. Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN. Assandri A, Perazzi A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM. Anonymous *Nutr Rev* 34: 185-7, Jun 76 (Eng) [9] DL/76NOV191

## Diabetes Literature—Hierarchical Index

### 2.B ADRENAL GLANDS

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzański T, Pieschi D *Psychiatr Neuro Med Psychol (Leipzig)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

[FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM] Starkova NT *Sov Med* 104-10, Sept 75 (Rus) DL/76NOV247

ENDOCRINOPATHY IN THALASSAEMIA MAJOR. McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Diethelm AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION. PP. 63-95 Vassileva-Popova JG, Yanev TI *In Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399

PULSATILE VARIATIONS IN HORMONE LEVELS. PP. 107-31. Bogumil RJ *In Ferin M et al., ed. Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [65] \*DL/76NOV408

PROLONGED CORTICOTROPIC ACTION OF SYNTHETIC HUMAN ACTH IN MAN. Baumann G, Felber JP *J Clin Endocrinol Metab* 42: 160-3, Jan 76 (Eng) \*DL/76NOV523

OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRTSUTISM. McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564

THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT. Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP 335-45. Kuriyama K, Nakagawa K *In Huxtable R, Barbeau A, ed. Taurine*. New York, Raven Press, 1975 W3 IN923E 1975i. (Eng) \*DL/76NOV639

#### 2.B.2.2 MINERALOCORTICOIDS

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

#### 2.B.3 ADRENAL MEDULLA

THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT. Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

EFFECTS OF ACUTE HEAT STRESS ON TISSUE CARBOHYDRATE IN FASTED RATS. Harrison MH *Aviat Space Environ Med* 47: 165-7, Feb 76 (Eng) \*DL/76NOV636

CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION. Lowder SC, Hamet P, Liddle GW *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV646

#### 2.B.3.1 EPINEPHRINE

PROTEIN PHOSPHORYLATION AND HORMONE ACTION. Cohen P, Antoniw JF, Nimmo HG, Yeaman SJ *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41

PEPTIDE METABOLISM. Anonymous *Ciba Found Symp* 41: 351-69, 1976 (Eng) DL/76NOV45

EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART. Clark CM Jr *Endocrinology* 99: 23-9, Jul 76 (Eng) DL/76NOV52

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACURE STUDY. Carpenter JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

[PROVOCATION TESTS IN PHEOCHROMOCYTOMA] Muhlhoff G, Sack H *Med Welt* 27: 1179-81, 11 Jun 76 (Ger) DL/76NOV172

EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE. Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE. Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCEMIA. Hutton RA, Macnab AJ, Rivers RP *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329

[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPYMIN. (2) ANALYSIS OF ITS MODE OF ACTION] Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

A MECHANISM FOR TOBACCO SMOKE-INDUCED ALLERGY. Keller KF, Doyle RJ *J Allergy Clin Immunol* 57: 278-82, Mar 76 (Eng) \*DL/76NOV528

EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCEROL GLYCEROL IN ADIPOSE TISSUE IN VITRO. Dominguez MC, Herrera E *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM. Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS. Allen DO, Katocs AS Jr, Largis EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP 335-6. Kuriyama K, Nakagawa K *In Huxtable R, Barbeau A, ed. Taurine*. New York, Raven Press, 1975 W3 IN923E 1975t. (Eng) \*DL/76NOV639

#### 2.B.3.2 NOREPINEPHRINE

EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITTED RATS TO AUTONOMIC AGENTS. Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

[PROVOCATION TESTS IN PHEOCHROMOCYTOMA] Muhlhoff G, Sack H *Med Welt* 27: 1179-81, 11 Jun 76 (Ger) DL/76NOV172

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLATE CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON. Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) DL/76NOV380

[STUDIES ON LIPOID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endocrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY MECHANISM OF THE RAT (AUTHORS TRANS)] Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

POTENTIAL ANTIOLIPOLYTIC ACTIVITY OF SULOCTIDIL. Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS. Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

#### 2.B.4 ADRENALECTOMY

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whittton PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

#### 2.B.5 ADRENAL DISORDERS

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOPACALCIUM] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

## Diabetes Literature—Hierarchical Index

### 2.C THYROID GLAND

**ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE.** Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

**EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN.** Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

**BIOCHEMICAL FORM OF A PARANEOPLASTIC CUSHINGS SYNDROME (AUTHORS TRANSL)** Strohfeld P *Munch Med Wochenschr* 118: 883-4, 2 Jul 76 (Ger) DL/76NOV179

**[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH]** Kashulina AP, Tereshchenko IP *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

**[FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM]** Starkova NT *Sov Med* 104-10, Sept 75 (Rus) DL/76NOV247

**[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME]** Bogatyrev OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

**[CATAMNESIS STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS]** Bock R, Wieczorek V, Dachsel R Z *Aerzt Forbital* (Jena) 70: 550-4, 15 May 76 (Ger) DL/76NOV274

**ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS.** Dietlheim AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

**DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME.** Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) DL/76NOV525

**OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRTSUTISM.** McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) DL/76NOV564

### 2.C THYROID GLAND

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID.** PP. 44-8. Sailer S *In 0 Hautvast JGAJ, et al., ed. Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

**[CLINICAL TRIAL OF THE ANTIBACTERIAL COMBINATION SULFAMOXOLE/TRIMETHOPRIM (CN 3123)]** SIXTH COMMUNICATION: RESULTS OF COMPATIBILITY OF CN 3123 (AUTHORS TRANSL) Etzel M, Wiesenber W *Arzneim Forsch* 26: 678-83, 1976 (Ger) DL/76NOV382

**MOLECULAR TRANSPORT IN THYROID SLICES.** Paiva M, Sanda JV, Swillens S, Dumont JE *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) \*DL/76NOV428

**EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES.** Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

**LETTER: ENERGY REQUIREMENTS OF MEMBRANE PUMPS.** Minkoff L, Damadian R *N Engl J Med* 292: 162-3, 16 Jan 75 (Eng) \*DL/76NOV669

### 2.C.1 THYROID HORMONES

**LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE.** Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

**THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT.** Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

**[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS]** Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

**[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM]** Dobrzanski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

**METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS.** Avram MM, Lipner HI, Sadigali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

**THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN.** Pratt OE *Adv Exp Med Biol* 69: 55-75, 1976 (Eng) [59] DL/76NOV300

**KINETIC STUDIES ON THE METABOLISM OF ETHYLmorphine BY ISOLATED HEPATOCYTES FROM ADULT RATS.** Erickson RR, Holtzman JL *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

**[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> AND ION TRANSPORT IN LIVER MITOCHONDRIA]** Turakulov IaK, Gainutdinov MKh, Salikhov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

**CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE.** Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Leán A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

**THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES).** Strand FL *Bioscience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

**PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION.** Vanhaest L, Degate JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV501

**ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM.** Yu S, Friedman Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

**REGULATION OF DEGRADATION OF THYROTROPIN RELEASING HORMONE BY THYROID HORMONES.** Bauer K *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

**GROWTH HORMONE IN CARDIAC HYPERTROPHY INDUCED BY NEPHROGENOUS HYPERTENSION.** Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578

**EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION.** Beck N, Webster SK *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

**[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY]** Opitz K *Med Monatsschr* 29: 530-4, Dec 75 (Ger) \*DL/76NOV668

### 2.C.2 THYROID ANTAGONISTS

**THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT.** Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

**INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METIAMIDE, AN H-2 HISTAMINE ANTAGONIST.** Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

**MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. II. COUPLING BETWEEN STRONG ELECTROLYTE FLUXES.** Azzoni GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 27-41, 15 Jan 76 (Eng) \*DL/76NOV435

**CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE.** Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Leán A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

**REGULATION OF DEGRADATION OF THYROTROPIN RELEASING HORMONE BY THYROID HORMONES.** Bauer K *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

### 2.C.3 THYROID DISORDERS

**[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM]** Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV393

## Diabetes Literature—Hierarchical Index

### 2.D PARATHYROID GLANDS

THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT. Lenzen S, Joost HG, Hasselblatt A. *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

METABOLIC DISORDERS CAUSING COMA AND SHOCK. PP. 175-85. Taylor AL. In *Emergency management of the critical patient*. New York, Stratton, 1975. WI DL/662H v2 1975. (Eng) DL/76NOV119

[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOPARATHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombara R, Giraldo B, Visca U. *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH] Kashulina AP, Tereshchenko IP. *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

[CATAMNISTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS] Bock R, Wiecek R, Dachsel R Z. *Aerztl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervan F, Morreale de Escobar G, Escobar del Rey E. *Endocrinology* 98: 77-83, Jan 76 (Eng) DL/76NOV468

[FUNDAMENTALS OF PARENTERAL FEEDING IN INTERNAL DISEASES] Trubestein G, Kikis D. *Infusionstherapie* 2: 450-5, Dec 75 (Ger) \*DL/76NOV655

### 2.D PARATHYROID GLANDS

DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYtic ACTION OF PARATHYROID HORMONE. Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH. *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Deftos LJ, Lorenzi M, Bohanon N, Tsakalakis E, Schneider V, Gerlich JE. *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

OBSErvATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN. Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH. *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

NEW CLINICAL SYNDROMES UNDER REGULAR INTERMITTENT HEMODIALYSIS. Loew H, Samizadeh A, Heilmann E. *Curr Top Pathol* 61: 239-76, 1976 (Eng) [280] \*DL/76NOV464

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinnar R, Baumann K. *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

ON THE LIPOLYtic ACTION OF PARATHYROID HORMONE IN MAN. Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH. *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION. Beck N, Webster SK. *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

### 2.E PITUITARY GLAND

#### 2.E.1 PITUITARY HORMONES, ANTERIOR

##### 2.E.1.1 CORTICOTROPIN

GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES. Tata JR. *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] DL/76NOV42

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermite M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C. *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M. *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C. *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RH). PP. 115-25. Besser GM. In *Labrie F, et al., ed. Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) DL/76NOV125

[BIOCHEMICAL FORM OF A PARANEOPLASTIC CUSHINGS SYNDROME (AUTHORS TRANSL)] Strohfeldt P. *Munch Med Wochenschr* 118: 883-4, 2 Jul 76 (Ger) DL/76NOV179

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzanski T, Pieschl D. *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

ENDOCRINOPATHY IN THALASSEMIA MAJOR. McIntosh N. *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

ENDOCRINE STUDIES IN DEPRESSION. PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmeri F, Quagliariello E. In *Endo Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) [65] \*DL/76NOV391

PULSATILE VARIATIONS IN HORMONE LEVELS. PP. 107-31. Bogumil RJ. In *Ferin M, et al., ed. Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [65] \*DL/76NOV408

TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS. PP. 371-95. Weitzman ED, Hellman L. In *Ferin M, et al., ed. Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [56] \*DL/76NOV415

THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSIAL.

ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS. PP. 351-83. Yates FE, Maran JW, FERENT WAYS AND RATES. 00050057 In *Aschoff J, et al., ed. Chronobiological aspects of endocrinology*. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

[CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMMOBILIZATION] Platonova RD, Baskakova GM, Chepurnov SA. *Biol Nauki* 37-40, 1975 (Rus) \*DL/76NOV443

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N. *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES). Strand FL. *Bioscience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

PROLONGED CORTICOTROPIC ACTION OF SYNTHETIC HUMAN ACTH IN MAN. Baumann G, Felber JP. *J Clin Endocrinol Metab* 42: 160-3, Jan 76 (Eng) \*DL/76NOV523

[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION] Iudaev NA, Afinogenova SA, Pokrovskii BV, Protasova TN. *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601

##### 2.E.1.2 SOMATOTROPIN

[BEHAVIOR OF PLASMA IRL, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS] Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G. *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE. Rosenbloom AL, Friaas JL. *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10

GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES. Tata JR. *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] DL/76NOV42

MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES. Achter R. *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] DL/76NOV43

SOMATOSTATIN--CLINICAL IMPLICATIONS. Anonymous. *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermite M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C. *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT. Johns JT, Bergen WG. *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

PITUITARY FUNCTION IN PSEUDOCYCLES. Yen SS, Rebar RW, Quesenberry W. *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGININE AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y. *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

## Diabetes Literature—Hierarchical Index

### 2.E PITUITARY GLAND

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT** Berland H, Moessner F, Willard D, Freys E, Tissier J *Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

**CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RIH).** PP. 115-25. Besser GM *In0 Labrie F, et al., ed. Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. W1 C282M v.3 1976. (Eng) DL/76NOV125

**DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS.** Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardi LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT.** Rylova AK *Kardiologija* 15: 100-3, Sep 75 (Rus) DL/76NOV150

**[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS]** Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

**DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY.** Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

**[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT]** Kozlowski W *Pol Arch Med Wewn* 56: 45-54, Jul 76 (Pol) DL/76NOV207

**[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM]** Dobrzański T, Pieschl D *Psychiatr Neurol Med Psychol (Leipzig)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

**[SECRETION OF GROWTH HORMONE IN ACROMEGLALY]** Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

**METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY.** Sullivan L *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

**METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS.** Avram MM, Lipner HI, Sadiqui R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

**GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTER-RELATED DIURNAL VARIATIONS.** Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

**GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS.** Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Svalahati E, Erkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

**ENDOCRINOPATHY IN THALASSAEMIA MAJOR.** McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

**ENDOCRINE STUDIES IN DEPRESSION.** PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E *In0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

**GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES.** PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzky C, Geck P, Pfeiffer B *In0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395

**GROWTH HORMONE: ASPECTS OF THE REGULATION OF HUMAN GROWTH HORMONE SECRETION.** PP. 489-97. Burger H *In0 Franchimont P, ed. Some aspects of hypothalamic regulation of endocrine functions.* Stuttgart, Schattauer, 1975. WL 312 S989s 1973. (Eng) [66] \*DL/76NOV396

**ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES.** PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N *In0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411

**ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS.** PP. 243-50. Imura H, Kato Y *In0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

**STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMI.** PP. 232-42. Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfine A *In0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV414

**TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS.** PP. 371-95. Weitzman ED, Hellman L *In0 Ferin M, et al., ed. Biorhythms and human reproduction.* New York, Wiley, 1974. QT 167 B616 1972. (Eng) [56] \*DL/76NOV415

**HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM-LABELLED HORMONE.** Kawachi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

**[THE EFFECTS OF ARGinine AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS]** Elsair J, Poey J, Bakiri F, Reggabi M, Benouniche M, Rahal M *Biomedicine (Express)* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

**SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION.** Albert LC, Braver JR, Patel YC, Reichlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

**CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE.** Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE.** Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

**BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS.** Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

**[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)]** Durand D, Prelon M, Raoul Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483

**INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT.** Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

**ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT.** Federipil G, Udeschini G, De Palo C, Sicolo N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

**IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM.** Eterodi H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seyler's Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

**STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION.** Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

**LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION.** Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

**THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO.** Sundberg DK, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

**GROWTH HORMONE IN CARDIAC HYPERTROPHY INDUCED BY NEPHROGENOUS**

## Diabetes Literature—Hierarchical Index

### 2.E PITUITARY GLAND

**HYPERTENSION.** Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578

**THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER FRACTION IN RATS.** Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng) \*DL/76NOV579

**PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN.** Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

**GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN.** Giudano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kbh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604

**CONFERENCE ON THE STRUCTURE-FUNCTION RELATIONSHIPS OF PITUITARY GROWTH HORMONE: A REPORT.** Kostyo JL, Wilhelm AF *Metabolism* 25: 105-24, Jan 76 (Eng) \*DL/76NOV666

**CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM.** Friedman M, Byers SO *Metabolism* 25: 125-6, Jan 76 (Eng) \*DL/76NOV667

**[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY]** Opitz K *Med Monatsschr* 29: 530-4, Dec 75 (Ger) \*DL/76NOV668

**2.E.1.3 THYROTROPIN**

**GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES.** Tata JR *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] DL/76NOV42

**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermite M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

**PITUITARY FUNCTION IN PSEUDOCYTES.** Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

**IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL.** PP. 433-50. Pelletier G *In* Labrie F, et al., *ed. Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) [23] DL/76NOV126

**DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY.** Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fielder J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

**CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN.** Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

**ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION.** PP. 43-52. Vassileva-Popova JG, Alexandron A, Kotarov M *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. WI IN133R 1974p. (Eng) \*DL/76NOV387

**INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION.** PP. 63-95 Vassileva-Popova JG, Yanev TK *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV399

**PULSATILE VARIATIONS IN HORMONE LEVELS.** PP. 107-31. Bogumil RJ *In* Ferin M, et al., *ed. Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [65] \*DL/76NOV408

**ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPophysiotropic HORMONES.** PP. 267-75. Kaneko T, Oka H, H. Munenura M, Saito S, Yanaihara N *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411

**ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS.** PP. 243-50. Imura H, Kato Y *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

**TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS.** PP. 371-95. Weitzman ED, Hellman L *In* Ferin M, et al., *ed. Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [56] \*DL/76NOV415

**THE ENTRY OF SUBSTANCES INTO THE SEMINIFEROUS TUBULES.** PP. 37-57. Setchell BP *In* Mancini RE, Martini L, ed. *Male fertility and sterility*. London, Academic Press, 1974. W3 PR945R v.5 1974. (Eng) \*DL/76NOV416

**HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE.** Kawauchi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

**ENZYMIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION.** Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE.** Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Leau A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

**LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION.** Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

**THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO.** Sundberg J, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

**2.E.2 PITUITARY HORMONES, POSTERIOR**

**MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES.** Acher R *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] DL/76NOV43

**EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOLYCEMIA AND LYSINE-VASOPRESSIN IN MAN.** Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

## Diabetes Literature—Hierarchical Index

### 2.F GONADS

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-MATURITY.** Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS. *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

**PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS.** Sende P, Pantelakis N, Suzuki K, Bashore R. *Obstet Gynecol* 48: 385-415, Jul 76 (Eng) DL/76NOV193

**[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH]** Kashulina AP, Tereshchenko IP. *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

**RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS.** Page MM, Asmal AC, Edwards CR. *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

**GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY.** Tyson JE, Hock RA. *Am J Obstet Gynecol* 125: 1009-27, 1 AUG 76 (Eng) DL/76NOV308

**[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPYMIN. (2) ANALYSIS OF ITS MODE OF ACTION]** Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N. *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

**2.E.3 PITUITARY HORMONES, INTERMEDIATE**

**2.E.4 PITUITARY HORMONE RELEASING FACTORS**

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y. *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

**GROWTH HORMONE: ASPECTS OF THE REGULATION OF HUMAN GROWTH HORMONE SECRETION.** PP. 489-97. Burger H. In *Franchimont P, ed. Some aspects of hypothalamic regulation of endocrine functions.* Stuttgart, Schattauer, 1975. WL 312 S989s 1973. (Eng) [66] \*DL/76NOV396

**THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSIAL-ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS.** PP. 351-83. Yates FE, Maran JW, Ferent WAYS AND, RATES. 00050057 In *Aschoff J et al., ed. Chronobiological aspects of endocrinology.* Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

**ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION.** Nakano H, Fawcett CP, McCann SM. *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M. *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Lean A, Rainville D, Lachance R, Labrie F. *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

**REGULATION OF DEGRADATION OF THYROTROPIN-RELEASING HORMONE BY THYROID HORMONES.** Bauer K. *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

**THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO.** Sundberg J, Fawcett CP, McCann SM. *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

**2.E.5 HYPOPHYSECTOMY**

**GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES.** Tata JR. *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] DL/76NOV42

**BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION.** Larsen LO. *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

**EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE.** Bruni A, Leon A, Boarato E. *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

**THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS.** Millward DJ, Garlick PJ, Nanyangulo DO, Waterlow JC. *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

**ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT.** Feder-spil G, Udeschini G, De Palo C, Siculo N. *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

**GROWTH HORMONE IN CARDIAC HYPERTrophy INDUCED BY NEPHROGENOUS HYPERTENSION.** Powis RL. *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578

**THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER FRACTION IN RATS.** Powis RL. *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng) \*DL/76NOV579

**ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES.** PP. 335-45. Kuriyama K, Nakagawa K. In *0 In Huxtable R, Barbour A, ed. Taurine.* New York, Raven Press, 1975 W3 IN923E 1975t. (Eng) \*DL/76NOV639

**2.E.6 PITUITARY DISORDERS**

**CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RH).** PP. 115-25. Besser GM. In *Labrie F, et al., ed. Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) DL/76NOV125

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardis LL, Goldman JK. *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS.** Sende P, Pantelakis N, Suzuki K, Bashore R. *Obstet Gynecol* 48: 385-415, Jul 76 (Eng) DL/76NOV193

**[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH]** Kashulina AP, Tereshchenko IP. *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

**RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS.** Page MM, Asmal AC, Edwards CR. *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

**[SECRETION OF GROWTH HORMONE IN ACROMEGALY]** Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J. *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

**[CATAMNESTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS]** Bock R, Wieczorek V, Dachsel R. *Z Aerztl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

**[HEMIMIHYPERTROPHY WITH WIEDEMANN-BECKWITH-SYNDROME (AUTHORS TRANSL)]** Schenck RD. *Z Orthop* 114: 354-60, Jun 76 (Ger) DL/76NOV277

**SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM.** Vesely DL, Castro A, Levey GS. *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

**ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS.** Diethelm AG, Sterling WA, Hartley MW, Morgan JM. *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

**GROWTH HORMONE: ASPECTS OF THE REGULATION OF HUMAN GROWTH HORMONE SECRETION.** PP. 489-97. Burger H. In *Franchimont P, ed. Some aspects of hypothalamic regulation of endocrine functions.* Stuttgart, Schattauer, 1975. WL 312 S989s 1973. (Eng) [66] \*DL/76NOV396

**THE INTRIGUING STORY OF SOMATOSTATIN.** Reitsma WD. *Neth J Med* 19: 1-4, 1976 (Eng) \*DL/76NOV559

**CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM.** Friedman M, Byers SO. *Metabolism* 25: 125-6, Jan 76 (Eng) \*DL/76NOV667

**2.F GONADS**

**2.F.1 OVARY**

**2.F.2 TESTIS**

**THE ENTRY OF SUBSTANCES INTO THE SEMINIFEROUS TUBULES.** PP. 37-57. Setchell BD. In *Mancini RE, Martini L, ed. Male fertility and sterility.* London, Academic Press, 1974. W3 PR945R v.5 1974. (Eng) \*DL/76NOV416

**FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO.** Haefner EW, Priveit OS. *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

**2.F.3 SEX HORMONES**

## Diabetes Literature—Hierarchical Index

### 2.F GONADS

**THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES).** Strand FL *Bioscience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

#### 2.F.3.1 ANDROGENS

**[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES]** Glanta RN, Skovronskaja EV, Vovk GP, Mikolishin LI *Biull Eksp Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

**INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION.** PP. 63-95 Vassileva-Popova JG, Yanev TK *In 0 Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer.* New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399

**THE ENTRY OF SUBSTANCES INTO THE SEMINIFEROUS TUBULES.** PP. 37-57. Setchell BP *In 0 Mancini RE, Martini L, ed. Male fertility and sterility.* London, Academic Press, 1974. W3 PR945R v.5 1974. (Eng) \*DL/76NOV416

**OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRTSUTISM.** McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564

#### 2.F.3.2 ESTROGENS

**LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE.** Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitjin N, Poshachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

**PITUITARY FUNCTION IN PSEUDOCYTES.** Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

**THE EFFECTS OF ESTROGENS ON REGIONAL ADIPOSE TISSUE CELLULARITY IN THE RAT.** Krotkiewski M *Acta Physiol Scand* 96: 128-33, Jan 76 (Eng) \*DL/76NOV608

#### 2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES

##### 2.F.3.3.1 CORPUS LUTEUM HORMONES

#### 2.F.3.3.2 PROGESTATIONAL HORMONES

**LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE.** Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitjin N, Poshachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

**PITUITARY FUNCTION IN PSEUDOCYTES.** Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

**EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM.** Hertelendy F, Dahn CH Jr, Mueller EJ *Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

**[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY]** Opitz K *Med Monatsschr* 29: 530-4, Dec 75 (Ger) \*DL/76NOV668

#### 2.F.3.4 CONTRACEPTIVES, ORAL

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitjin N, Poshachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

#### 2.F.4 GONADAL DISORDERS

**GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE.** Rosenblom AL, Frias JL *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10

**DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY.** Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

**[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH]** Kashulina AP, Tereshchenko IP *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

**OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRTSUTISM.** McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564

### 2.G OTHER ENDOCRINES AND RELATED TERMS

#### 2.G.1 ENDOCRINE GLANDS

**GASTROINTESTINAL HORMONES.** Sullivan SN *Can J Surg* 19: 295-310, Jul 76 (Eng) DL/76NOV26

**ENDOCRINE STUDIES IN DEPRESSION.** PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E *In 0 Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. W1 102 1657p 1974. (Eng) \*DL/76NOV391

#### 2.G.2 HORMONES

**MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES.** Orci L *Ciba Found Symp* 41: 267-80, 1976 (Eng) DL/76NOV40

**MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES.** Acher R *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] DL/76NOV43

**PEPTIDE METABOLISM.** Anonymous *Ciba Found Symp* 41: 351-69, 1976 (Eng) DL/76NOV45

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

**MEMBRANE RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS.** Kahn CR *J Cell Biol* 70: 261-86, Aug 76 (Eng) DL/76NOV89

**THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES.** Olefsky JM *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

**THE CONTROL OF LIPOPROTEIN LIPASE.** PP. 102-10. Cryer A, Davies P, Robinson DS *In 0 Hautvast JGAJ, et al., ed. Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. W1 550 B655 1974. (Eng) [21] DL/76NOV122

**ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT.** Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

**DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS.** Bloom SR, Johnson RH, Park DM, Remnie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

**EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM.** Anonymous *Nutr Rev* 34: 185-7, Jun 76 (Eng) [9] DL/76NOV191

**POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARACTERIZATION, AND SOME BIOLOGICAL PROPERTIES OF FORMS I AND II.** Rinderknecht E, Humber RE *Proc Natl Acad Sci USA* 73: 2365-9, Jul 76 (Eng) DL/76NOV215

**IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY.** Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

**THE REGULATION OF INSULIN SECRETION.** Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [814] DL/76NOV235

**THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON.** O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

**A NEW MATHEMATICAL APPROACH OF HORMONAL REGULATORY MECHANISMS DURING GROWTH.** PP. 3-11. Collot F *In 0 Vasileva-Popova JG, ed. Physical and chemical bases of biological information transfer.* New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV385

## Diabetes Literature—Hierarchical Index

### 2.G OTHER ENDOCRINES AND RELATED TERMS

**ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION.** PP. 43-52. Vassileva-Popova JG, Alexandrov A, Kotarov M *In 0 Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV387*

**GROWTH AND DEVELOPMENTAL HORMONES AS CHEMICAL MESSENGERS.** PP. 261-78. Tata JR *In 0 Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [2] \*DL/76NOV394*

**INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION.** PP. 63-95 Vassileva-Popova JG, Yanev TK *In 0 Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399*

**THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES).** Strand FL *Bioscience 25: 568-77, Sep 75 (Eng) \*DL/76NOV490*

**ICYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION** [Iudaea NA, Afinogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601*

#### 2.G.2.1 GASTROINTESTINAL HORMONES

**GASTROINTESTINAL HORMONES.** Sullivan SN *Can J Surg 19: 295-310, Jul 76 (Eng) DL/76NOV26*

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Leyte T, Accary JP, Roze C *Gastroenterology 71: 255-62, Aug 76 (Eng) DL/76NOV60*

**THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION.** Guth PH, Smith E *Gastroenterology 71: 435-8, Sep 76 (Eng) DL/76NOV61*

**ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE.** Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res 8: 237-8, May 76 (Eng) DL/76NOV73*

**INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG.** BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87*

**CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RH).** PP. 115-25. Besser GM *In 0 Labrie F, et al., ed. Hypothalamus and endocrine functions. New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) DL/76NOV125*

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESER HYPERGLYCAEMIC MICE.** Best L, Atkins TW, Matty AJ *J Endocrinol 69: 26p, Jun 76 (Eng) DL/76NOV133*

**EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL.** Sakasaki S, Umeyama K, Nishiwaki H,

Satake K *Jpn J Gastroenterol 73: 481-6, May 76 (Jpn) DL/76NOV149*

**EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99mTC PERTECHNETATE IN MICE.** Khettry J, Effmann E, Grand RJ, Treves S *Radiology 120: 629-31, Sep 76 (Eng) DL/76NOV227*

**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis 21: 563-8, Jul 76 (Eng) DL/76NOV306*

**GASTROINTESTINAL SOMATOSTATIN CELLS IN THE HUMAN FETUS.** Dubois PM, Paulin C *Cell Tissue Res 166: 179-84, 12 Feb 76 (Eng) \*DL/76NOV455*

#### 2.G.2.2 PROSTAGLANDINS

**GASTROINTESTINAL HORMONES.** Sullivan SN *Can J Surg 19: 295-310, Jul 76 (Eng) DL/76NOV26*

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTAGLANDINS.** Coupar IM, McColl I *Gut 16: 759-65, Oct 75 (Eng) \*DL/76NOV651*

#### 2.G.2.3 HORMONES, ECTOPIC

**[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH]** Kashulina AP, Tereshchenko IP *Patol Fiziol Eksp Ter 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202*

**GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETOORY SYSTEM.** Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN *Biochem J 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368*

**GROWTH HORMONE: ASPECTS OF THE REGULATION OF HUMAN GROWTH HORMONE SECRETION.** PP. 489-97. Burger H *In 0 Franchimont P, ed. Some aspects of hypothalamic regulation of endocrine functions. Stuttgart, Schattauer, 1975. W1 312 S989s 1973. (Eng) [66] \*DL/76NOV396*

**[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX]** Gourdoux L *C R Soc Biol (Paris) 169: 941-5, 1975 (Fre) \*DL/76NOV453*

#### 2.G.2.4 PLACENTAL HORMONES

**[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY]** Opitz K *Med Monatsschr 29: 530-4, Dec 75 (Ger) \*DL/76NOV668*

#### 2.G.2.5 RELAXIN

#### 2.G.2.6 JUVENILE HORMONES

#### 2.G.3 CHROMAFFIN SYSTEM

**ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES.** PP 335-45. Kuriyama K, Nakagawa K *In 0 Huxtable R, Barbeau A, ed. Taurine. New York, Raven Press, 1975 W3 IN923E 1975t. (Eng) \*DL/76NOV639*

### 2.G.4 PINEAL BODY

### 2.G.5 PITUITARY-ADRENAL SYSTEM

### 2.G.6 SECRETORY RATE

**INFLUENCE OF HYPERGLYCAEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS.** Markiewicz K, Lukin M *Digestion 14: 188-91, 1976 (Eng) DL/76NOV59*

**[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)]** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr 9: 273-8, May-Jun 76 (Spa) DL/76NOV321*

**STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMIC PP. 232-42.** Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfine A *In 0 Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. W1 102 1657p 1974. (Eng) \*DL/76NOV414*



# Diabetes Literature—Keyword Index

## ABSORPTION

THE EFFECTS OF REMOVAL OF SODIUM IONS FROM THE MUCOSAL SOLUTION ON SUGAR ABSORPTION BY RABBIT ILEUM. Naftalin RJ, Holman GD *Biochim Biophys Acta* 419: 385-90, 21 Jan 76 (Eng) \*DL/76NOV429

ABSORPTION OF SHORT CHAIN FATTY ACIDS FROM THE HUMAN JEJUNUM. Schmitt MG Jr, Soergel KH, Wood CM *Gastroenterology* 70: 211-5, Feb 76 (Eng) \*DL/76NOV493

EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

## ABSORPTION, GLUCOSE

STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS. Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

## ACCIDENTS

[INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS] Hankiewicz J, Scieszkowa M *Wiad Lek* 29: 1311-5, 15 Jul 76 (Pol) DL/76NOV273

## ACETATE

EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM. Hertelendy F, Dahm CH Jr, Mueller EJ *Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

## 14C-ACETATE

FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haefliger EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

## ACETYL COENZYME A CARBOXYLASE

DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHESIZING POLYSOMES IN RAT LIVER. Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

## ACIDEMIA, NEONATAL LACTIC

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biervliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* 1: 594, 13 Mar 76 (Eng) \*DL/76NOV545

## ACIDOSIS

EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM. Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

## ACIDOSIS, LACTIC

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

LACTIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR. Ames AC, Cobbold S, Maddock J *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

## ACIDOSIS, METABOLIC

EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION. Beck N, Webster SK *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

## ACINAR CELL, PANCREATIC

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

## ACROMEGALY

[SECRETION OF GROWTH HORMONE IN ACROMEGALY] Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

## ACTH

SEE ADRENOCORTICOTROPIC HORMONE

## ACYL COENZYME A

SELECTIVE INHIBITION OF ACYL-COA DEHYDROGENASES BY A METABOLITE OF HYPOGLYCYCIN. Kean EA *Biochim Biophys Acta* 422: 8-14, 23 Jan 76 (Eng) \*DL/76NOV432

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EF-FUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

## N-ACYLGLUCOSAMINE

THE EFFECT OF N-ACYLGLUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT. Ashcroft SJ, Crossley JR, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

## ADDISONS DISEASE

ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE. Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

## ADENINE NUCLEOTIDE

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS. Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

## ADENINE NUCLEOTIDE TRANSLOCASE

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EF-FUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

## ADENOHYPOPHYSIAL

THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSIAL ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS. PP. 351-83. Yates FE, Maran JW, FERENT WAYS AND, RATES. 0005005T *In* Ashcroft J et al., ed. *Chronobiological aspects of endocrinology*. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

## ADENOSINE MONOPHOSPHATE

[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA2& ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov Iak, Gainutdinov MKh, Salikhov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

## ADENOSINE TRIPHOSPHATASE, MITOCHONDRIAL

THE ROLE OF LIPID IN REGULATION OF MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE. Bertoli E, Finean JB, Griffiths DE *FEBS Lett* 61: 163-5, 15 Jan 76 (Eng) \*DL/76NOV485

## ADENOSINE TRIPHOSPHATASE, TRANSPORT

[ION-DEPENDENT CONFORMATIONAL TRANSITIONS IN TRANSPORT ATPASE MEMBRANE PREPARATIONS] Raikman LM, Moshkovskii Ius *Mol Biol* 8: 768-74, Sep-Oct 74 (Rus) \*DL/76NOV553

## ADENOSINE TRIPHOSPHATE

ACTIVATION BY GTP OF LIVER ADENYLATE CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP. Kimura N, Nakane K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

ATP-DEPENDENT REACTIONS CATALYZED BY INNER MEMBRANE VESICLES OF RAT LIVER MITOCHONDRIA. KINETICS, SUBSTRATE SPECIFICITY, AND BICARBONATE SENSITIVITY. Pedersen PL *J Biol Chem* 251: 934-40, 25 Feb 76 (Eng) \*DL/76NOV516

## Diabetes Literature—Keyword Index

### ADENOSINE TRIPHOSPHATE HYDROLYSIS

**RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM.** Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ. *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

### ADENOSINE TRIPHOSPHATE HYDROLYSIS

**[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA]** Dolgov AV, Ismanov AL, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA. *Biochimia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

### ADENOSINE-3,5-CYCLOCIMONOPHOSPHATE

**EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS.** Grill V, Cerasi E. *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

**EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART.** Clark CM Jr. *Endocrinology* 99: 23-9, Jul 76 (Eng) DL/76NOV52

**DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYtic ACTION OF PARATHYROID HORMONE.** Thajchayapong P, Queener SF, McClinton R, Allen DO, Bell NH. *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESER HYPERGLYCAEMIC MICE.** Best L, Atkins TW, Matty AJ. *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

**RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON.** Gardner LB, Spannhake EB, Reisher S. *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

**[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS]** Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O. *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Oses JB, Christoffersen T, Morland J, Oye I. *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

**ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOTHYROIDIC HORMONES.** PP. 267-75. Kaneko T, Oka H, Muncemura M, Saito S, Yanaihara N. In: *Hypothalamic and Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411

**[CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE]** Kiliar M, Uong DS. *Biochimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

**EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE.** Wada M, Akanuma Y, Kimura N, Nagata N. *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

**EFFECT OF GLUCOSE AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE ON THE SYNTHESIS OF SUCCINATE DEHYDROGENASE AND ISOCITRATE LYASE IN *ESCHERICHIA COLI*.** Takahashi Y. *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng) \*DL/76NOV511

**[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA]** Neifakh SA, Puchkova LV. *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

**THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO.** Sundberg DK, Fawcett CP, McCann SM. *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

**ADENOSINE-3,5-CYCLOCIMONOPHOSPHATE IN PERFUSED RAT HEARTS EXPOSED TO ISOPRENALENE AND DOPAMINE.** Oses JB, Oye I. *Acta Physiol Scand* 96: 100-13, Jan 76 (Eng) \*DL/76NOV607

**CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION.** Lowder SC, Hamet P, Liddle GW. *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV646

### ADENOSINE-3,5-CYCLOCIMONOPHOSPHATE

**THE MODE OF ACTION OF ADENOSINE 3,5-CYCLOCIMONOPHOSPHATE IN THE REGULATION OF INSULIN SECRETION.** Montague W, Howell SL. *Ciba Found Symp* 41: 141-58, 1976 (Eng) \*DL/76NOV38

### ADENYLATE CYCLASE

**IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY.** Pohl SI. *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

**ACTIVATION BY GTP OF LIVER ADENYLATE CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP.** Kimura N, Nakane K, Nagata N. *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

**COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLATE CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON.** Miller RJ. *Biochem Pharmacol* 23: 537-41, 1 Mar 76 (Eng) DL/76NOV380

**REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIANATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN *ESCHERICHIA COLI*.** Saier MH Jr, Feucht BU, Hofstader LJ. *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

**PROCEEDINGS: A ROLE FOR LIPIDS IN THE ACTIVATION OF ADENYLATE CYCLASE BY CATECHOLAMINE.** Orly J, Schramm M. *Isr J Med Sci* 11: 1195, Nov 75 (Eng) \*DL/76NOV656

### ADIPOCYTE

**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kissebah AH, Clarke P, Vydellingum N, Tulloch B, Fraser TR. *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV707

**EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE.** Wada M, Akanuma Y, Kimura N, Nagata N. *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

### ADIPOCYTE, ISOLATED

**THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES.** Olefsky JM. *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

### ADIPOSE CELL

**EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY.** Carpenter JL, Perrelet A, Orci L. *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

### ADIPOSE TISSUE

**NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESE AND NONOBESER DIABETICS.** Belfiore F, LoVecchio L, Borzi V. *Metabolism* 25: 723-5, JUL 76 (Eng) DL/76NOV173

**EFFECTS OF HALOTHANE ON LIPID METABOLISM IN HUMAN ADIPOSE TISSUE.** PP. 842-5. Dennis J, Smith U. In: *0 Arias A et al., ed. Recent progress in anaesthesiology and resuscitation*. Amsterdam, Excerpta Medica, 1975, W3 EX89 no. 347 1974. (Eng) \*DL/76NOV389

**CA2+-DEPENDENT ACTIVATION OF PHOSPHORYLASE BY PHOSPHORYLASE KINASE IN ADIPOSE TISSUE.** Khoo JC. *Biochim Biophys Acta* 422: 87-97, 23 Jan 76 (Eng) \*DL/76NOV433

**INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL.** Thomas VG, George JC. *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

**PURIFICATION AND SOME PROPERTIES OF A MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE.** Tornqvist H, Belfrage P. *J Biol Chem* 251: 813-9, 10 Feb 76 (Eng) \*DL/76NOV512

**EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO.** Dominguez MC, Herrera E. *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

**[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY]** Surinov BP, Sheyanov GG. *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

## Diabetes Literature—Keyword Index

### ADIPOSE TISSUE, BROWN

THE BIOENERGETICS OF BROWN ADIPOSE TISSUE MITOCHONDRIA. Nicholls DG *FEBS Lett* 61: 103-110, 15 Jan 76 (Eng) [43] \*DL/76NOV484

### ADIPOSE TISSUE CELLULARITY

THE EFFECTS OF ESTROGENS ON REGIONAL ADIPOSE TISSUE CELLULARITY IN THE RAT. Krotkiewski M *Acta Physiol Scand* 96: 128-33, Jan 76 (Eng) \*DL/76NOV608

### ADIPOSE TISSUE METABOLISM

FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATIONS INFLUENCE OF ADIPOSE TISSUE METABOLISM. PP. 30-43. Björntorp P *Inn Hauvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [37] DL/76NOV121

### ADRENAL

THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSIAL-ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS. PP. 351-83. Yates FE, Maran JW, Ferent WAYS AND RATES. 00050057 *Inn Aschoff J et al., ed. Chronobiological aspects of endocrinology*. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

### ADRENAL CATECHOLAMINE

THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT. Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

### ADRENAL GLAND

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP. 33-45. Kuriyama K, Nakagawa K *Inn Huxtable R, Barbeau A, ed. Taurine*. New York, Raven Press, 1975 W3 IN923E 1975t. (Eng) \*DL/76NOV639

### ADRENALECTOMIZED RAT

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whittton PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

### ADRENOCORTICOSTEROID

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

### ADRENOCORTICOTROPIC HORMONE

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPIN LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzański T, Pieschi D *Psychiatr Neurul Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV22

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

PROLONGED CORTICOTROPIC ACTION OF SYNTHETIC HUMAN ACTH IN MAN. Baumann G, Felber JP *J Clin Endocrinol Metab* 42: 160-3, Jan 76 (Eng) \*DL/76NOV523

### ADRIAMYCIN

EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULL. Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

### AERATION

EFFECT OF AERATION ON THE ACTIVITY OF GLUCONEOGENETIC ENZYMES IN SACCHAROMYCES CEREVIAE GROWING UNDER GLUCOSE LIMITATION. Haaralahti S, Oura E *Arch Microbiol* 106: 271-3, 31 Dec 75 (Eng) \*DL/76NOV630

### AFFINITY CHROMATOGRAPHY

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

### AGE

NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS. Goto Y, Toyota T, Masuda M, Komatsu K, Kuriki A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

DEPENDENCE ON AGE OF METHAMPHETAMINE-PRODUCED CHANGES IN THERMOREGULATION AND METABOLISM. Estler CJ *Experientia* 31: 1436-7, 15 Dec 75 (Eng) \*DL/76NOV482

CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE. Conex K, Raikova M, Boneva M *Folia Med (Plovdiv)* 17: 3-8, 1975 (Eng) \*DL/76NOV494

EFFECTS OF AGE AND HYPERTENSION ON UTILIZATION OF GLUCOSE BY RAT AORTA. Daly MM *Am J Physiol* 230: 30-3, Jan 76 (Eng) \*DL/76NOV624

### AGGREGATION CONSTANT

VELOCITY OF RED CELL AGGREGATION (RCA) PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION

### ALCOHOLISM

CONSTANT. Schmid-Schönbein H, Kline KA, Volger E *Bibl Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

### AGGREGATION STIMULATING SUBSTANCE

[LABILE AGGREGATION STIMULATING SUBSTANCE, FREE FATTY ACIDS, AND PLATELET AGGREGATION] Gerrard JM, White JG, Krivis W *J Lab Clin Med* 87: 73-82, Jan 76 (Eng) \*DL/76NOV660

### AGING

EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS. Gommers A, Genné H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION. PP. 63-95 Vassileva-Popova JG, Yanev TK *Inn Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399

### AIR BREATHING FISH

ON THE MUSCULAR FUEL OF THE AIR SAC IN AN AIR BREATHING FISH. Thakur RN, Singh BR *Acta Histochem (Jena)* 54: 322-7, 1975 (Eng) \*DL/76NOV605

### AIR SAC

ON THE MUSCULAR FUEL OF THE AIR SAC IN AN AIR BREATHING FISH. Thakur RN, Singh BR *Acta Histochem (Jena)* 54: 322-7, 1975 (Eng) \*DL/76NOV605

### ALBUMIN

UNUSUAL SPECIFICITIES OF ANTIBODIES TO F1 GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garraud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN. Assandri A, Perazzi A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN. Poulsen HL *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV353

### ALCOHOLIC, CHRONIC

PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS. Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

### ALCOHOLISM

[ALCOHOLISM AND METABOLIC DISEASES] Vogelberg KH *Dtsch Med Wochenschr* 101: 1199-202, 6 Aug 76 (Ger) [51] DL/76NOV48

[THERAPY OF ALCOHOLISM] Bueno F, Mezey E *Internist (Berlin)* 17: 362-9, Jul 76 (Ger) DL/76NOV82

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPIN LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzański T,

## Diabetes Literature—Keyword Index

### ALDOSTERONE

Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) \*DL/76NOV222

### ALDOSTERONE

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) \*DL/76NOV94

### ALGA, GREEN

[ISOLATION AND PROPERTIES OF THE CELL ENVELOPE OF THE GREEN ALGA CHLORELLA FUSSA (AUTHORS TRANSL)] Hulsen W, Kubin D *Z Naturforsch [C]* 30: 684-6, Sep-Oct 75 (Ger) \*DL/76NOV599

### ALKANE SULFANILOXAMIDE

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhantemirova TS, Bannyi IP, Petunin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) \*DL/76NOV57

### ALKANE SULFONILHYDRAZINE

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhantemirova TS, Bannyi IP, Petunin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) \*DL/76NOV57

### ALKANOL

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

### ALLERGY, SMOKE-INDUCED

A MECHANISM FOR TOBACCO SMOKE-INDUCED ALLERGY. Keller KF, Doyle RJ *J Allergy Clin Immunol* 57: 278-82, Mar 76 (Eng) \*DL/76NOV528

### ALLOGRAFT, PANCREATIC

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) \*DL/76NOV241

### ALLOGRAFT, RENAL

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Diethelm AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) \*DL/76NOV337

### ALLOSTERIC

INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION. PP. 63-95 Vassileva-Popova JG, Yanev TK *In0 Vassileva-Popova JG*, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399

### ALLOSTERIC EFFECTOR

THE CONTROL OF PYRUVATE KINASE OF *ESCHERICHIA COLI*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwal BD *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

### ALLOXAN

PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO. Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) \*DL/76NOV8

### ALLOXAN DIABETES

[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES] Glants RN, Skovronskaya EV, Vovk GP, Mikolishin LI *Biull Eksp Biol Med* 81: 560-1, May 76 (Rus) \*DL/76NOV12

REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS. Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) \*DL/76NOV23

PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES. Rinaudo MT, Ponsetto C, Curto M, Betta PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) \*DL/76NOV84

[ANIMAL EXPERIMENTAL STUDIES ON PERIODONTAL CHANGES IN ALLOXAN DIABETES] Bienengraber V, Tillmann K, Zahn Mund Kieferheilkd 64: 260-6, 1976 (Eng) \*DL/76NOV280

### ALPHA CELL

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) \*DL/76NOV175

### ALTERNATE DAY

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Diethelm AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) \*DL/76NOV337

### AMINE

[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski C, Dekarz B, Angielski S, Wojcikowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) \*DL/76NOV298

### AMINE, BIOGENIC

[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY MECHANISM OF THE RAT (AUTHORS TRANSL)] Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

### AMINE PRECURSOR UPTAKE DECARBOXYLATION

AN EXPERIMENTAL INVESTIGATION INTO THE POSSIBLE NEURAL CREST ORIGIN OF

PANCREATIC APUD (ISLET) CELLS. Andrew A *J Embryol Exp Morphol* 35: 577-93, Jun 76 (Eng) \*DL/76NOV135

### AMINO ACID

PROTEIN SPARING PRODUCED BY PROTEINS AND AMINO ACIDS. Anonymous *Nutr Rev* 34: 174-6, Jun 76 (Eng) \*DL/76NOV190

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltész G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Witting MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

### AMINO ACID SEQUENCE

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) \*DL/76NOV62

### AMINO ACID TRANSPORT

ENERGETIC COUPLING OF AMINO ACID TRANSPORT. PP. 107-15. Heinz E, Pietrzik C, Geck P, Pfeiffer B *In0 Gardos G, Szasz I*, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV392

MATURATION OF MEMBRANE FUNCTION: TRANSPORT OF AMINO ACID BY RAT ERYTHROID CELLS. Wise WC *J Cell Physiol* 87: 199-201, Dec 75 (Eng) \*DL/76NOV519

### AMINONUCLEOSIDE

EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULI. Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

### AMMONIA

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskow MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) \*DL/76NOV95

### AMNIOTIC FLUID

[THE LECITHIN-SPHINOGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCIES] Tchobroutsky C, Cedard L, Rouvillois JL,

## Diabetes Literature—Keyword Index

Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Eng) DL/76NOV113

### AMP

SEE ADENOSINE-3,5-CYCLOCYTIDYL MONOPHOSPHATE

### D-AMPHETAMINE

REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS. Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

### AMPUTATION

LOWER EXTREMITY AMPUTATIONS IN THE COUNTY OF AALBORG 1961-1971. POPULATION STUDY AND FOLLOW-UP. Christensen S *Acta Orthop Scand* 47: 329-34, Jun 76 (Eng) DL/76NOV29

LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imperato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

### AMYLASE

[AMYLASE DETERMINATION IN URINE] Lorentz K, Koch CD *Dtsch Med Wochenschr* 101: 1261-2, 20 Aug 76 (Ger) DL/76NOV49

### AMYOTROPHY, DIABETIC

DIABETIC AMYOTROPHY--A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED. Donovan WH, Sumi SM *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

### ANALYSIS, KINETIC

PERIFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS. Allen DO, Katocs AS Jr, Largin EE, Ashmore J *Biomed Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

### ANALYTICAL INVESTIGATION

ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION. PP. 43-52. Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV387

### ANALYTICAL RESULTS

A SYSTEM FOR REPORTING ANALYTICAL RESULTS ACCORDING TO THE ACTUAL LEVEL OF THE TESTS EXACTITUDE. Sobolewski G *Clin Biochem* 8: 409-14, Dec 75 (Eng) \*DL/76NOV647

### ANALYZER, CLINICAL

EVALUATION OF A DISCRETE-SAMPLE COMPUTER-DIRECTED CLINICAL ANALYZER. Forrester RL, Collinge W, Hashimoto P, Worrall J *Clin Chem* 22: 211-6, Feb 76 (Eng) \*DL/76NOV458

### ANALYZER, CONTINUOUS FLOW

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinner ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

### ANAPHYLACTIC SHOCK

MYOCARDIAL SUBSTRATE UTILIZATION IN ANAPHYLACTIC SHOCK. Spitzer JJ *Proc Soc Exp Biol Med* 151: 28-31, Jan 76 (Eng) \*DL/76NOV566

### ANAPHYLACTOID

ANAPHYLACTOID REACTION TO SINGLE-COMPONENT PORK INSULIN. Goldman RA, Lewis AE, Rose LI *JAMA* 236: 1148-9, 6 Sep 76 (Eng) DL/76NOV146

### ANGIOGRAPHIC DIAGNOSIS

[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT] Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

### ANGIOTENSIN II

[EFFECT OF ANGIOTENSIN II ON THE PATTERN OF PLASMA FREE FATTY ACIDS IN 2 HYPERTENSION MODELS IN RABBITS] Michalov ML *Cor Vasa* 17: 285-91, 1975 (Ger) \*DL/76NOV462

### ANOMALY, CARDIAC

DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY. Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

### ANOMERIC

INSULIN RELEASE IS GLUCOSE ANOMERIC SPECIFIC IN THE HUMAN. Rossini AA, Soeldner JS *J Clin Invest* 57: 1083-8, Apr 76 (Eng) DL/76NOV102

### ANOREXIC

REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS. Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

### ANOXIA

EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS. Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117-23, 1976 (Eng) \*DL/76NOV611

### ANTERIOR HYPOTHALAMUS

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Albert LC, Brower JR, Patel YC, Rechlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

### ANTERIOR PITUITARY

THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO. Sundberg DK, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

### ANTERIOR PITUITARY CELL

ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES

### ANTIGENIC DETERMINANT

ON THE CONTROL OF HORMONE SECRETION. Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

### ANTI SOMATOSTATIN

BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

### ANTIBACTERIAL

[CLINICAL TRIAL OF THE ANTIBACTERIAL COMBINATION SULFAMOXOLE/TRIMETHOPRIM (CN 3123)/SIXTH COMMUNICATION: RESULTS OF COMPATIBILITY OF CN 3123 (AUTHORS TRANSL)] Etzel M, Wesenberg W *Arzneim Forsch* 26: 678-83, 1976 (Ger) DL/76NOV382

### ANTIBODIES, INSULIN

LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES. Schernthaner G, Ludwig H, Mayr WR, Willvonseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

### ANTIBODY

#### UNUSUAL SPECIFICITIES OF ANTIBODIES TO

GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garaud JC, Moody AJ, Eloy R, Grenier JP *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION. Pechev II, Shishova AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

### ANTIBODY RESPONSE

ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG: THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN. Hollins PJ, Hinsworth RL *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

### ANTIDIABETIC DRUG

HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE? Breidahl HD *Aust Fam Physician* 5: 445-51, May 76 (Eng) DL/76NOV345

### ANTIGEN

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

### ANTIGENIC DETERMINANT

ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG: THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN. Hollins PJ, Hinsworth RL *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

## Diabetes Literature—Keyword Index

### ANTILIPOLYTIC ACTIVITY

#### ANTILIPOLYTIC ACTIVITY

POTENTIAL ANTILIPOLYTIC ACTIVITY OF SULOCTIDIL. Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV58

#### ANTISEROTONINERGIC

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

#### AORTA

IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL. Sarma JS, Fischer R, Ikeda S, Bing RJ *Proc Soc Exp Biol Med* 151: 303-6, Feb 76 (Eng) \*DL/76NOV56

EFFECTS OF AGE AND HYPERTENSION ON UTILIZATION OF GLUCOSE BY RAT AORTA. Daly MM *Am J Physiol* 230: 30-3, Jan 76 (Eng) \*DL/76NOV624

#### AORTIC INTIMA-MEDIA

MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS PRESERVED. Morrison AD, Berwick L, Orci L, Winegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

#### APNOEIC

CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS. Bennett T, Hosking DJ, Hampton JR *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

#### APOLIPOPROTEIN, PLASMA

ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET. Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

#### APOPROTEIN

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY. Kisselbach AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

#### APPETITE

POSSIBLE INTERRELATIONSHIP BETWEEN METABOLITE FLUX AND APPETITE. PP. 115-25. Sullivan AC, Triscari J *In: Novin D et al., ed. Hunger 6 basic mechanisms and clinical implications*. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) \*DL/76NOV407

#### ARACHIDONIC ACID

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennergren A *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

### ARGININE

POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGININE AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

[THE EFFECTS OF ARGININE AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsaie J, Poey J, Bakiri F, Reggabi M, Benouiche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

STIMULATION OF RHESUS MONKEY GH RELEASE: ARGININE VS PLASMA VOLUME EXPANSION. Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

#### ARGININE INFUSION

NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS. Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

#### ARGON LASER

[THE ARGON LASER AND DIABETIC RETINOPATHY] Massin M, Laborde-Berrangé A *Arch Ophthalmol [Paris]* 35: 735-46, Oct 75 (Fre) DL/76NOV341

EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC. Apple DJ, Wyhanny GJ, Goldberg MF, Polley EH *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

#### ARRHYTHMIA

[EFFECT OF ANTI-ARRHYTHMIA AGENTS ON THE IMPULSE CONDUCTION TO THE HEART] Kushakovskii MS *Kardiologiya* 15: 137-45, Sep 75 (Rus) [100] DL/76NOV151

#### ARTERIAL METABOLISM

ARTERIAL METABOLISM IN PRIMATES. Portman OW, Illingworth DR *Primates Med* 9: 145-223, 1976 (Eng) [349] \*DL/76NOV672

#### ARTERIAL WALL

[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT] Aumailler M, Razaka G, Larrete J, Bricaud H *C R Soc Biol [Paris]* 169: 553-8, 1975 (Fre) \*DL/76NOV449

[ENERGY SUPPLY OF THE ARTERIAL WALL AFTER ITS DENERVATION] Smikdub AI *Patol Fiziol Eksp Ter* 34-7, Sep-Oct 75 (Rus) \*DL/76NOV670

#### ARTERIOSCLEROSIS

[NECESSITY OF ACTIVE TREATMENT OF LATENT FORMS OF DIABETES MELLITUS IN PATIENTS WITH ARTERIOSCLEROSIS] Khaletskii ME *Ter Arkh* 48: 116-20, 1976 (Rus) DL/76NOV253

### ARTERY

FATTY STREAKING OF HUMAN ARTERIES. A PRELIMINARY STUDY. Velican D, Velican C *Rev Roum Med Intern* 13: 25-9, 1975 (Eng) \*DL/76NOV582

#### ARTERY, CORONARY

REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE. Hamby RL, Sherman L, Mehta J, Aintablian A *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filikula J, Pejchalova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg [Torino]* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS. Mjor OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

#### ARYLSULPHATASE

AUTOPHAGY-RELATED CHANGES OF ARYL-SULPHATASE A AND B IN RAT LIVER LYSOSOMES. Sanghavi P, Koenig H *Biochem J* 155: 725-8, 1 Jun 76 (Eng) DL/76NOV360

#### ATHEROSCLEROSIS

DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS. Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

ATHEROSCLEROSIS IN RHESUS AND CYNOLOGUS MONKEYS. Armstrong ML *Primates Med* 9: 16-40, 1976 (Eng) [67] \*DL/76NOV673

ATHEROSCLEROSIS IN OLD WORLD MONKEYS. Clarkson TB, Hamm TE, Bullock BC, Lehner ND *Primates Med* 9: 66-89, 1976 (Eng) \*DL/76NOV676

#### ATHEROSCLEROSIS, EXPERIMENTAL

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 959-9, Nov-Dec 75 (Rus) \*DL/76NOV597

EXPERIMENTAL ATHEROSCLEROSIS IN THE BABOON. McGill HC Jr, Mott GE, Bramblett CA *Primates Med* 9: 41-65, 1976 (Eng) [98] \*DL/76NOV675

#### AUTONOMIC

LACK OF CENTRAL AUTONOMIC REGULATION OF SUBSTRATE DURING EARLY FASTING IN MAN. Brodows RG, Campbell RG, Al-Aziz AJ *Metabolism* 25: 803-7, JUL 76 (Eng) DL/76NOV176

#### AUTONOMIC AGENT

EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITHEC RATS

## Diabetes Literature—Keyword Index

### BINDING, INSULIN

TO AUTONOMIC AGENTS. Foy JM, Lucas PD  
*Br J Pharmacol* 57: 229-34, Jun 76 (Eng)  
\*DL/76NOV18

### AUTOPHAGY

AUTOPHAGY-RELATED CHANGES OF ARYL-SULPHATASES A AND B IN RAT LIVER LYSSOMES. Sanghavi P, Koenig H *Biochem J* 155: 725-8, 1 Jun 76 (Eng) \*DL/76NOV360

### AXILLOFEMORAL BYPASS GRAFT

RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT. Shons AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng)  
\*DL/76NOV313

### AXIS, HYPOTHALAMIC-PITUITARY

TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS. PP. 371-95. Weitzman ED, Hellman L *In 0 Ferin M et al., ed. Biorhythms and human reproduction. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [56]* \*DL/76NOV415

### AXIS, PITUITARY-THYROID

PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION. Vanhaelst L, Degraeve JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng)  
\*DL/76NOV501

### BACTERIA

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION-mediated BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

### BACTERIAL MEMBRANE VESICLE

TRANSPORT STUDIES IN BACTERIAL MEMBRANE VESICLES. Kaback HR *Science* 186: 882-92, 6 Dec 74 (Eng) [105] \*DL/76NOV586

### BACTERIOHODOPSIN

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

### BASAL LAMINAE

THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATER-NAL DIABETES MELLITUS. Emmrich P, Fuchs U, Heinke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) \*DL/76NOV160

### BASAL METABOLISM

CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS. Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) \*DL/76NOV351

### BASEMENT MEMBRANE, GLOMERULAR

PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN

DIABETES. Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng)  
\*DL/76NOV141

### BETA BLOCKADE

SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA. PP. 248-59. Carruthers ME, Taggart P, Salpeter PD, Gatt JA *In 0 Schweizer W, ed. Beta-blockers - present status and future prospects. Bern, Huber, 1974. QT 132 B562 1974. (Eng)* \*DL/76NOV640

### BETA CELL

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL. Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) \*DL/76NOV369

### BETA CELL, PANCREATIC

PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM. Alwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) \*DL/76NOV143

### BICARBONATE

ATP-DEPENDENT REACTIONS CATALYZED BY INNER MEMBRANE VESICLES OF RAT LIVER MITOCHONDRIA. KINETICS, SUBSTRATE SPECIFICITY, AND BICARBONATE SENSITIVITY. Pedersen PL *J Biol Chem* 251: 9340-25 Feb 76 (Eng) \*DL/76NOV516

### BILAYER

NONELECTROLYTE DIFFUSION ACROSS LIPID BILAYER SYSTEMS. Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng)  
\*DL/76NOV661

### BILAYER MEMBRANE

EFFECTS OF PEPTIDE PV AND RELATED COMPOUNDS ON THE IONIC PERMEABILITY OF LIPID BILAYER MEMBRANES. PP. 157-66. Testeson DC *In 0 Gards G, Szasz I, ed. Biomembranes: structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35.* (Eng) \*DL/76NOV390

INTERACTIONS OF PROTEINS AND CHOLESTEROL WITH LIPIDS IN BILAYER MEMBRANES. Kleemann W, McConnell HM *Biochem Biophys Acta* 419: 206-22, 21 Jan 76 (Eng) \*DL/76NOV425

EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFFUSION IN LIPID BILAYER MEMBRANES. Bradshaw RW, Robertson CR *J Membr Biol* 25: 93-114, 4 Dec 75 (Eng)  
\*DL/76NOV540

### BILAYER MEMBRANE VESICLE

PHOSPHOLIPID EXCHANGE BETWEEN BILAYER MEMBRANE VESICLES. Martin FJ, MacDonald RC *Biochemistry* 15: 321-7, 27 Jan 76 (Eng) \*DL/76NOV423

### BILE

[GLUCOSE AND THE REDUCING SUGARS OF THE HUMAN BILE] Paris J, Salembier Gerard A, Samso G *Med Chir Dig 4 suppl 1: 31-4, 1975 (Fre)* \*DL/76NOV162

### BILIRUBIN BINDING

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

### BIMOLECULAR MEMBRANE

IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM. Kafka MS, Holz RW *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

### BINDING

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) \*DL/76NOV87

PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS. Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) \*DL/76NOV109

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadiyal GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) \*DL/76NOV303

THE CONTROL OF PYRUVATE KINASE OF ESCHERICHIA COLI. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Samual BD *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES. Boland MJ, Gutfrund H *Biochem J* 151: 715-27, Dec 75 (Eng) \*DL/76NOV637

### BINDING, BILIRUBIN

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

### BINDING, INSULIN

INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS. Esber EC, Buell DN, Leikin SL *SL Blood* 48: 33-9, Jul 76 (Eng) \*DL/76NOV13

INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS. Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) \*DL/76NOV97

THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES. Olefsky JM *J Clin Invest* 57: 842-51, Apr 76 (Eng) \*DL/76NOV104

INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION. Penchev II, Shisheva AC, Ditzel SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) \*DL/76NOV285

## Diabetes Literature—Keyword Index

### BINDING, MACROMOLECULE

#### BINDING, MACROMOLECULE

MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES. Orci L *Ciba Found Symp* 41: 267-80, Jun 1976 (Eng) DL/76NOV40

#### BINDING SITE

COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN. Assandri A, Perazzi A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

#### BIOENERGETICS

MITOCHONDRIAL BIOENERGETICS: FACTS AND IDEAS. PP. 257-85. Ernster L *In Gards G, Szasz I, ed. Biomembranes* 0 structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) [157] \*DL/76NOV404

THE BIOENERGETICS OF BROWN ADIPOSE TISSUE MITOCHONDRIA. Nicholls DG *FEBS Lett* 61: 103-110, 15 Jan 76 (Eng) [43] \*DL/76NOV484

#### BIOGENESIS

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Beck DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### BIOGENIC AMINE, BRAIN

[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY MECHANISM OF THE RAT (AUTHORS TRANSL)] Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

#### BIOMEMBRANE

LIPID-PROTEIN INTERACTION IN MODEL SYSTEMS AND BIOMEMBRANES. PP. 3-16. van Deenen LL *In Gards G, Szasz I, ed. Biomembranes* 0 structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) [49] \*DL/76NOV402

#### BIOTIN

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

#### BIOTIN METALLOENZYME

MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE. Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

### BIRMINGHAM DIABETES SURVEY

TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY. Anonymous *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

#### BLIND

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

#### BLOOD

ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY. Hoare EM, Barnes AJ, Dormandy JA *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY. Zaretskaya RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV17

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES] Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevravina OG *Klin Med (Mosc)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

[LETTER: OSTEOPOROSIS—CAUSED BY DECREASED BLOOD CIRCULATION IN THE BONES] Krokowski E, Fricke M Z *Orthop* 114: 430-1, Jun 76 (Ger) DL/76NOV278

GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

Possible ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN. Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS. Volger E, Schmid-Schönbein H, Mehnert H *Bild Anat* 13: 97-8, 1975 (Eng) DL/76NOV357

[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)] Oravec D, Moravec R *Bratislav Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

EFFECTS OF P-CHLOROPHOXYISOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjøs OD, Miller NE, Riemsma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)] Durand D, Prelot M, Raoul Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483

A SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF GLUCOSE IN BLOOD SERUM. Daines TL, Morse KW *J Chem Educ* 53: 126-7, Feb 76 (Eng) \*DL/76NOV521

[LETTER: GLUCOSE ANALYSIS IN BLOOD AND SERUM WITH THE BM-TESTMETER] Nue I, Wulff AM, Bundgaard K *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY] Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

EVALUATION OF A REAGENT-STRIP METHOD FOR GLUCOSE IN WHOLE BLOOD, AS COMPARED WITH A HEXOKINASE METHOD. Stewart TC *Clin Chem* 22: 74-8, Jan 76 (Eng) \*DL/76NOV648

[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION] Matzkes F, Berg G, Bickel H, Sailer D *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

#### BLOOD BRAIN BARRIER

THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM. Betz AL, Gilbow DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

#### BLOOD CALCIUM

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

#### BLOOD CARBOXYHEMOGLOBIN

LACK OF THE CORRELATION BETWEEN BIOCHEMICAL EFFECTS ON RATS AND BLOOD CARBOXYHEMOGLOBIN CONCENTRATIONS IN VARIOUS CONDITIONS OF SINGLE ACUTE EXPOSURE TO CARBON MONOXIDE. Sokal JA *Arch Toxicol (Berl)* 34: 331-6, 18 Dec 75 (Eng) \*DL/76NOV632

## Diabetes Literature—Keyword Index

### BLOOD CONSTITUENT

**CHANGES IN BLOOD CONSTITUENTS IN RATS ADMINISTERED MORPHINE AND SUBJECTED TO HE-O2 AT 11 ATA.** De Boer B, Tofano M. *Aviat Space Environ Med* 47: 151-3, Feb 76 (Eng) \*DL/76NOV635

### BLOOD GLUCOSE

**OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA.** Inoue M, Kajiya F, Inada H, Kitabatake A, Hori M. *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

**BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION.** Larsen LO. *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

**STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST.** Sasaki A, Horuchi J. *Chronic Dis* 29: 129-40, Feb 76 (Eng) DL/76NOV91

**LETTER: CONTROL OF BLOOD GLUCOSE IN DIABETES.** Anonymous. *N Engl J Med* 295: 509-12, 26 Aug 76 (Eng) DL/76NOV184

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahti E, Erkkola R, Punnonen R, Rauramo L. *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulz D, Pöntner H, Landgraf M. *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Hare JW. *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION.** Randall GC, L'Ecuyer C. *Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

### BLOOD INSULIN

**[ACTIVITY OF BLOOD INSULIN IN DIABETES MELLITUS]** Litovchenko IuS. *Vrach Delo* 105-8, Oct 75 (Rus) DL/76NOV268

### BLOOD LIPID

**LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD.** Heaton KW, Manning AP, Hartog M. *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

### BLOOD PLATELET

**REGULATION OF GLYCOGEN METABOLISM IN HUMAN BLOOD PLATELETS.** pp. 107-9. Schneider W. *Inn Ulin ON, ed. Platelets. Amsterdam, Excerpta Medica, 1975. W3 EX89 no.357 1974.* (Eng) \*DL/76NOV410

### BLOOD, STORED

**OBSERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-**

**PHOSPHATE-DEXTROSE STORED BLOOD IN MAN.** Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH. *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

### BLOOD SUGAR

**[CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMMOBILIZATION]** Platanova RD, Baskakova GM, Chepurnov SA. *Biol Nauki* 37-40, 1975 (Rus) \*DL/76NOV443

### BLOOD SUPPLY

**RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILOFEMORAL BYPASS GRAFT.** Shons AR, DeShazo CV, Rattazzi L, Najarian JS. *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

### BLOOD VISCOSITY

**ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY.** Hoare EM, Barnes AJ, Dormandy JA. *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

### BM-TESTMETER

**[LETTER: GLUCOSE ANALYSIS IN BLOOD AND SERUM WITH THE BM-TESTMETER]** Nue I, Wulff AM, Bungdaal K. *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

### BODY COMPOSITION

**PLASMA CARNITINE AND BODY COMPOSITION.** Cederblad G. *Clin Chim Acta* 67: 207-12, 1 Mar 76 (Eng) \*DL/76NOV461

### BODY NITROGEN

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM. *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

### BODY POTASSIUM

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM. *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

### BODY WEIGHT

**OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS.** Lotan E, Adler JH. *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

### BOND, TRANS-DOUBLE

**[EFFECT OF DIETARY FATTY ACIDS WITH TRANS-DOUBLE BONDS]** Thiele OW. *Hipokrates* 46: 247-9, Jun 75 (Ger) \*DL/76NOV505

### BONE

**[LETTER: OSTEOPOROSIS-CAUSED BY DECREASED BLOOD CIRCULATION IN THE BONES]** Krokowski E, Fricke M. *Z Orthop* 114: 430-1, Jun 76 (Ger) DL/76NOV278

### BREEDING, SELECTIVE

#### BOWEL, SMALL

**[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL OF THE RAT (AUTHORS TRANSL)]** Merkle P, Bindewald H, Breitig D. *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546

#### BRAIN

**PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES.** Rinaudo MT, Ponsetto C, Curti M, Bettà PG. *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84

**THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM.** Betz AL, Gilbøe DD, Drewes LR. *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

**THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN.** Pratt OE. *Adv Exp Med Biol* 69: 55-75, 1976 (Eng) [59] DL/76NOV300

**POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN.** Tagliamonte A, Demonti MG, Olianas M, Onali PL, Gessa GL. *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

**EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO.** Kammler RG. *Am J Vet Res* 37: 935-8, Aug 76 (Eng) DL/76NOV318

**[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY MECHANISM OF THE RAT (AUTHORS TRANSL)]** Fukushima N. *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

#### BRAIN CELL

**HOW DOES GLUCOSE ENTER BRAIN CELLS** pp. 126-43. Bachelard HS. *In* Igvær DH, Lassen NA, ed. *Brain work: the coupling of function metabolism and blood flow in the brain.* Copenhagen, Munksgaard, 1975. W3 AL36 1974b. (Eng) [53] \*DL/76NOV397

#### BRAIN MICROVESSEL

**ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX.** Brendel K, Meezan E, Carlson EC. *Science* 185: 953-5, 13 Sept 74 (Eng) \*DL/76NOV584

#### BRAIN STEM

**DOPAMINE EFFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING AND LEVER-PRESSING FOR FOOD.** Martin GE, Myers RD. *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

#### BREAD

**LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD.** Heaton KW, Manning AP, Hartog M. *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

#### BREEDING, SELECTIVE

**PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING.** Goto Y, Kakizaki M, Masaki N

## Diabetes Literature—Keyword Index

### BROWN ADIPOSE TISSUE

*Tohoku J Exp Med* 119: 85-90, May 76 (Eng) \*DL/76NOV258

### BROWN ADIPOSE TISSUE

**THE BIOENERGETICS OF BROWN ADIPOSE TISSUE MITOCHONDRIA.** Nicholls DG *FEBS Lett* 61: 103-110, 15 Jan 76 (Eng) [43] \*DL/76NOV484

### BUTYLBIGUANIDE

**ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS.** Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

### BUTYRATE

**GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE.** Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

### CALCIUM

**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kisselbach AH, Clarke P, Vydellinum N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

**PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM.** Atwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

**MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS.** PP. 167-80. Gardos G, Szasz I, Sarkadi B *In: Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV403

**RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM.** Tsokos JO, Bloom S *Biochim Biophys Acta* 423: 42-51, 15 Jan 76 (Eng) \*DL/76NOV436

**IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM.** Kafka MS, Holz RW *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

**EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION.** Beck N, Webster SK *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

### CALCIUM ANTAGONIST

**CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL.** Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

### CALCIUM, BLOOD

**(BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM)** Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

### CALCIUM CONCENTRATION

**LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD.** Heaton KW, Manning AP, Hartog M *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

### CALCIUM ION

**CA2+-DEPENDENT ACTIVATION OF PHOSPHORYLASE BY PHOSPHORYLASE KINASE IN ADIPOSE TISSUE.** Khoo JC *Biochim Biophys Acta* 422: 87-97, 23 Jan 76 (Eng) \*DL/76NOV433

**[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA2+ & ION TRANSPORT IN LIVER MITOCHONDRIA]** Turakulov Iak, Gainutdinov MKh, Salikhov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

**STOICHIOMETRY OF H2 EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA2+ & BY RAT LIVER MITOCHONDRIA.** Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

**RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA.** Su HS, Shraga E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

**[IDENTIFICATION OF THE INHIBITION TYPE OF HEXOKINASE AND PYRUVATE KINASE ACTIVITY BY CA2+]** Genin MS, Andreev VS *Biokhimiia* 40: 885-9, Jul-Aug 75 (Rus) \*DL/76NOV644

### CALCIUM IONOPHORE

**EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES.** Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

### CALCIUM TRANSPORT

**THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL?** Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

**FURTHER STUDIES ON THE EFFECT OF PHOSPHOENOLPYRUVATE ON RESPIRATION-DEPENDENT CALCIUM TRANSPORT BY RAT HEART MITOCHONDRIA.** Chudapongse P *Biochim Biophys Acta* 423: 196-202, 16 Feb 76 (Eng) \*DL/76NOV437

### CALCIUM UPTAKE

**CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE.** Schilin J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

### CALORIC SOURCE

**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

### CALORIE

**ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION.** Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

**EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBES RATS.** Koletsy S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

### CANCER, PANCREAS

**[CANCER OF THE PANCREAS. EPIDEMIOLOGY AND EXPERIMENTAL CARCINOGENESIS]** Pelfrene AF *Arch Fr Mal App Dig* 65: 161-8, Mar 76 (Fre) [46] DL/76NOV334

### CANDIDA MYCOPHERMA

**[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPHERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE]** Sokolov GV, Eremina SS, Lozinen AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

### CAPILLARY

**THE EPITHELIAL AND CAPILLARY BASAL LAMINA OF THE PLACENTA IN MATERNAL DIABETES MELLITUS.** Emmrich P, Fuchs U, Heinke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

### CAPILLARY ENDOTHELIUM

**THE ISOLATION AND CULTURE OF CAPILLARY ENDOTHELIUM FROM EPIDIDYMAL FAT.** Wagner RC, Matthews MA *Microvasc Res* 10: 286-97, Nov 75 (Eng) \*DL/76NOV551

### CAPILLARY FILTRATION COEFFICIENT

**CAPILLARY FILTRATION COEFFICIENT IN SHORT AND LONG-TERM DIABETES.** Nielsen SL, Poulsen HL *Bibl Anat* 13: 78-9, 1975 (Eng) DL/76NOV354

### CARBAMYL PHOSPHATE SYNTHETASE

**A MAJOR POLYPEPTIDE COMPONENT OF RAT LIVER MITOCHONDRIA: CARBAMYL PHOSPHATE SYNTHETASE.** Clarke S *J Biol Chem* 251: 950-61, 25 Feb 76 (Eng) \*DL/76NOV517

### CARBOHYDRATE

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsakianak E, Schneider V, Karam JH, Forsham PH *Br J Clin Invest* 37: 875-84, Apr 76 (Eng) DL/76NOV105

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-MATURITY.** Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

## Diabetes Literature—Keyword Index

**SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY.** Cederbaum SD, Blas JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) \*DL/76NOV203

**[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES]** Anonymous *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275

**BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN.** Kiehm TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

**THE EFFECTS OF NORSTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR.** Spellacy WN, Buhé WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

**REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN ESCHERICHIA COLI.** Saier MH Jr, Feucht BU, Hofstader LJ *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA *Jr Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

**RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS.** Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) \*DL/76NOV616

**EFFECTS OF ACUTE HEAT STRESS ON TISSUE CARBOHYDRATE IN FASTED RATS.** Harrison MH *Aviat Space Environ Med* 47: 165-7, Feb 76 (Eng) \*DL/76NOV636

### CARBOHYDRATE DIET

**THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET.** Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

### CARBOHYDRATE METABOLISM

**EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO.** Packard GC, Randall JG *J Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

**CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT.** Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

**ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM.** Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

**INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME.** Bogatyrev OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

**RADIORESPIROMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE.** DaCosta H, Shreeve

WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) \*DL/76NOV532

**[CARBOHYDRATE METABOLISM OF DIAPAUSING INSECTS (AUTHORS TRANSL)]** Kageyama T, Takahashi SY *Protein Nucleic Acid Enzyme (Tokyo)* 20: 1285-300, Dec 75 (Jpn) [134] \*DL/76NOV570

**CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL BLOOD LYMPHOCYTES.** Apollonj MC, Vasile C, Floridi A, Natali PG *Immunol Commun* 4: 453-63, 1975 (Eng) \*DL/76NOV654

### CARBOHYDRATE METABOLISM DISORDER

**[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT]** Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

**[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA]** Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

### CARBOHYDRATE-FREE DIET

**EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS.** Tanabe S, Kameoka K *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV606

### CARBON

**RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID.** Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

### CARBON 13

**[USE OF ETHANOL NATURALLY ENRICHED IN CARBON 13 FOR METABOLIC STUDIES]** Bricout J, Le Bourhis B, Koziot J *C R Soc Biol (Paris)* 169: 904-11, 1975 (Fre) \*DL/76NOV452

### CARBON 14

**[EXHALATION DIAGNOSIS WITH C14 TAGGED COMPOUNDS, METHODS AND RESULTS]** Lutolf UM, Glanzmann C, Renk IW, Horst W *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

### CARBON ISOTOPE FRACTIONATION

**[THE MECHANISM OF CARBON ISOTOPE FRACTIONATION IN THE METABOLIC PROCESS]** Ivlev AA, Koroleva MIA, Kaloshin AG *Mol Biol (Mosk)* 9: 435-42, May-Jun 75 (Rus) \*DL/76NOV556

### CARBON MONOXIDE

**LACK OF THE CORRELATION BETWEEN BIOCHEMICAL EFFECTS ON RATS AND BLOOD CARBOXYHEMOGLOBIN CONCENTRATIONS IN VARIOUS CONDITIONS OF SINGLE ACUTE EXPOSURE TO CARBON MONOXIDE.** Sokal JA *Arch Toxicol (Berl)* 34: 331-6, 18 Dec 75 (Eng) \*DL/76NOV632

## CARDIOVASCULAR DISEASE

### CARBON OXIDATION

**EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULL.** Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

### CARBOXYHEMOGLOBIN

**LACK OF THE CORRELATION BETWEEN BIOCHEMICAL EFFECTS ON RATS AND BLOOD CARBOXYHEMOGLOBIN CONCENTRATIONS IN VARIOUS CONDITIONS OF SINGLE ACUTE EXPOSURE TO CARBON MONOXIDE.** Sokal JA *Arch Toxicol (Berl)* 34: 331-6, 18 Dec 75 (Eng) \*DL/76NOV632

### CARBOXYLASE, ACETYL COENZYME A

**DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHESIZING POLYSOMES IN RAT LIVER.** Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

### CARBOXYLIC ACID

**METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICHA).** Schillinger E, Loge O *Arzneim Forsch 26: 554-6, Apr 76 (Eng)* DL/76NOV381

### CARBOXYPEPTIDASE LIKE

**CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS.** Zuhlik H, Steiner DF, Lernmark A, Lipsky C *Ciba Found Symp 41: 183-95, 1976 (Eng)* [33] DL/76NOV39

### CARCINOGENESIS

**[CANCER OF THE PANCREAS. EPIDEMIOLOGY AND EXPERIMENTAL CARCINOGENESIS]** Peltzene AF *Arch Fr Mal App Dig* 65: 161-8, Mar 76 (Fre) [46] DL/76NOV334

### CARDIAC ANOMALY

**DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY.** Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

### CARDIAC HYPERTROPHY

**GROWTH HORMONE IN CARDIAC HYPERTROPHY INDUCED BY NEPHROGENOUS HYPERTENSION.** Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578

### CARDIAC NECROSIS

**THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS.** Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

### CARDIOVASCULAR DISEASE

**[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES]** Anonymous *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275

## Diabetes Literature—Keyword Index

### CARDIOVASCULAR REFLEX

#### CARDIOVASCULAR REFLEX

CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS. Bennett T, Hosking DJ, Hampton JR *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

#### CARE

THE CARE OF DIABETES MELLITUS AT A COMMUNITY HEALTH CENTRE. Smithurst BA *Aust Fam Physician* 5: 545-9, May 76 (Eng) DL/76NOV349

#### CARNITINE, PLASMA

PLASMA CARNITINE AND BODY COMPOSITION. Cederblad G *Clin Chim Acta* 67: 207-12, 1 Mar 76 (Eng) \*DL/76NOV461

#### CAROTID BOVINE GRAFT

CRITICAL REVIEW OF THE USE OF CAROTID BOVINE GRAFTS FOR HEMODIALYSIS. Zincke H *Eur Surg Res* 8: 189-95, 1976 (Eng) DL/76NOV53

#### CARRIER

CARRIER-MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA. PP. 287-306. Fonyo A, Ligeti E, Palmieri F, Quagliariello E *In: Gardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV388

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

#### CASEIN HYDROLYSATE

[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES] Glants RN, Skovronskaja EV, Vovk GP, Mikolishin LI *Bull Eksp Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

#### CATAMNESTIC

[CATAMNESTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS] Bock R, Wieczorek V, Dachsel R Z *Aerztl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

#### CATECHOLAMINE

FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID. PP. 44-8. Sailer S *In: Hautvast JGAJ, et al, ed. Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologiya* 13: 91-100, Sep 75 (Rus) DL/76NOV152

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES

FROM CHROMAFFIN GRANULES. PP 335-45. Kuriyama K, Nakagawa K *In: Huxtable R, Barbeau A, ed. Taurine*. New York, Raven Press, 1975 W3 IN923E 1975. (Eng) \*DL/76NOV639

PROCEEDINGS: A ROLE FOR LIPIDS IN THE ACTIVATION OF ADENYLYL CYCLASE BY CATECHOLAMINE. Orly J, Schramm M *Isr J Med Sci* 11: 1195, Nov 75 (Eng) \*DL/76NOV656

#### CATECHOLAMINE, ADRENAL

THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT. Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

#### CATION, MONOVALENT

THE UPTAKE AND EXTRUSION OF MONOVALENT CATIONS BY ISOLATED HEART MITOCHONDRIA. Brierley GP *Mem Cell Biochem* 10: 41-63, 31 Jan 76 (Eng) \*DL/76NOV554

#### CAVEAT

CAVEAT ON GLUCOSE ANOMERS: MEASUREMENTS AND METABOLISM. Rossini AA, Soeldner JS *Horm Metab Res* 7: 522-3, Nov 75 (Eng) \*DL/76NOV500

#### CELL

INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS. Esber EC, Buell DN, Leikin SL *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA. Millard PR, Jerome GP, Millward-Sadler GH *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

AN EXPERIMENTAL INVESTIGATION INTO THE POSSIBLE NEURAL CREST ORIGIN OF PANCREATIC APUD (ISLET) CELLS. Andrew A J *Embryol Exp Morphol* 35: 577-93, Jun 76 (Eng) DL/76NOV135

SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM. Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) DL/76NOV426

RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM. Tsokos JO, Bloom S *Biochim Biophys Acta* 423: 42-51, 15 Jan 76 (Eng) \*DL/76NOV436

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinchart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

#### 3T3-CELL

FACTORS CONTROLLING THE GROWTH OF 3T3 CELLS AND TRANSFORMED 3T3 CELLS. PP. 777-84. Holley RW *In: Reich E, et al, ed. Proteases and biological control*. Cold

Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) DL/76NOV128

#### CELL, ADIPOSE

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY. Carpenter JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

#### CELL, ALPHA

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossman VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

#### CELL, ANTERIOR PITUITARY

ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION. Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

#### CELL, BETA

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL? Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

#### CELL, BRAIN

HOW DOES GLUCOSE ENTER BRAIN CELLS. PP. 126-43. Bachelard HS *In: Ingvar DH, Lassen NA, ed. Brain work: the coupling of function metabolism and blood flow in the brain*. Copenhagen, Munksgaard, 1975. W3 AL36 1974b. (Eng) [53] \*DL/76NOV397

#### CELL, CULTURED MAMMALIAN

POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS. Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

#### CELL ENVELOPE

[ISOLATION AND PROPERTIES OF THE CELL ENVELOPE OF THE GREEN ALGA CHLORELLA FUNCA (AUTHORS TRANSL)] Hulsen W, Kubin D *Z Naturforsch [C]* 30: 684-6, Sep-Oct 75 (Ger) \*DL/76NOV599

#### CELL, ERYTHROID

MATURATION OF MEMBRANE FUNCTION: TRANSPORT OF AMINO ACID BY RAT ERYTHROID CELLS. Wise WC *WC J Cell Physiol* 87: 199-201, Dec 75 (Eng) \*DL/76NOV519

#### CELL, FAT

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM. Hertelendy F, Dahn CH Jr, Mueller EJ

## Diabetes Literature—Keyword Index

*Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

**PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS.** Allen DO, Katocs AS Jr, Largin EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

### CELL GROWTH

**POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARACTERIZATION, AND SOME BIOLOGICAL PROPERTIES OF FORMS I AND II.** Rinderknecht E, Humber RE *Proc Natl Acad Sci USA* 73: 2365-9, Jul 76 (Eng) DL/76NOV215

### CELL, HEART

**INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE.** Ghanbari H, McCarl RL *J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

### CELL, HEPATOMA

**SELECTIVE CONTROL OF THE DEGRADATION OF NORMAL AND ABERRANT PROTEINS IN REUBER H35 HEPATOMA CELLS.** Knowles SE, Ballard FJ *Biochem J* 156: 609-17, 15 Jun 76 (Eng) DL/76NOV372

### CELL, LIVER

**K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO.** Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

**PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS.** Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

**GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE.** Clark MG, Filis OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

### CELL MEMBRANE

**MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE.** Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

### CELL, MYOCARDIAL

**TRANSFER OF [<sup>14</sup>C] PALMITATE BETWEEN MYOCARDIAL CELL FRAC-** TIONS. Fields M, Gloster J, Harris P *J Mol Cell Cardiol* 7: 907-16, Dec 75 (Eng) \*DL/76NOV664

### CELL, PANCREATIC BETA

**PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM.** Atwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

### CELL, PITUITARY

**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE.** Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

### CELL, RED BLOOD

**IN VITRO METABOLISM OF RED BLOOD CELLS FROM NEWBORN AND ADULT GOATS.** Agar NS, Harley JD *Biol Neonate* 28: 113-7, 1976 (Eng) \*DL/76NOV444

### CELL, SENSORY

**ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS.** Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

### CELL, SOMATOSTATIN

**GASTROINTESTINAL SOMATOSTATIN CELLS IN THE HUMAN FETUS.** Dubois PM, Paulin C *Cell Tissue Res* 166: 179-84, 12 Feb 76 (Eng) \*DL/76NOV455

### CELL, SURFACE

**POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS.** Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

### CELLULAR

**CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST.** Hears DJ, Stewart DA, Braimbridge MV, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

### CELLULAR DIFFERENTIATION

**BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS.** Beck DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

### CELLULARITY, ADIPOSE TISSUE

**THE EFFECTS OF ESTROGENS ON REGIONAL ADIPOSE TISSUE CELLULARITY IN THE RAT.** Krotkiewski M *Acta Physiol Scand* 96: 128-33, Jan 76 (Eng) \*DL/76NOV608

### CENTRAL THERMOREGULATORY MECHANISM

**[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY MECHANISM OF THE RAT (AUTHORS TRANSL)]** Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

## CHILD, CHRONICALLY ILL

### CEREBRAL

**EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE.** Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

### CEREBRAL CORTEX

**ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX.** Brendel K, Meezan E, Carlson EC *Science* 185: 953-5, 13 Sept 74 (Eng) \*DL/76NOV584

### CEREBRAL GLUCOSE

**THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM.** Betz AL, Gilbow DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

**INFLUENCE OF FUNCTIONAL ACTIVITY ON LOCAL CEREBRAL GLUCOSE UTILIZATION.** pp. 385-8. Sokoloff L *Inn Invgar DH, Lassen NA, ed. Brain work: the coupling of function metabolism and blood flow in the brain.* Copenhagen, Munksgaard, 1975. W3 AL36 1974b. (Eng) \*DL/76NOV398

### CEREBRAL METABOLIC

**[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY]** Brodskaja NI, Zotov IvV, Shchedrenko VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

### CHEMICAL MESSENGER

**GROWTH AND DEVELOPMENTAL HORMONES AS CHEMICAL MESSENGERS.** pp. 261-78. Tata JR *Inn Vassilieva-Popova JG, ed. Physical and chemical bases of biological information transfer.* New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [2] \*DL/76NOV394

### CHICK

**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

### CHILD

**THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN.** Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

**[EFFECT OF TOLBUTAMIDE ON PLASMA INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)]** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

### CHILD, CHRONICALLY ILL

**CHRONICALLY ILL CHILDREN. A PSYCHOLOGICALLY AND EMOTIONALLY DEVIANT POPULATION.** Tavorina JB, Kastner LS, Slater PM, Watt SL *J Abnorm Child Psychol* 4: 99-110, 1976 (Eng) DL/76NOV110

## Diabetes Literature—Keyword Index

### CHILD, DIABETES

#### CHILD, DIABETES

**DIABETES IN CHILDREN.** Ryan P *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

#### CHILD, DIABETIC

**[GLOMERULAR FILTRATION RATE IN DIABETIC CHILDREN MEASURED BY ISOTOPE METHOD]** Drexler M, Ortwein V *Orv Hetil* 117: 1878-83, 1 Aug 76 (Hung) DL/76NOV200

**CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON.** Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV332

#### CHILD, INSULINOMA

**[INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APPROPOS OF 2 CASES)]** Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

#### CHILDHOOD

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lüdtke E, Robbe K, Rahn A, Schmalz H *Kinderärzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD]** Nowakowski T, Wasikowa R *Kinderärzt Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

**RADIOPROFILOMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE.** DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) \*DL/76NOV532

#### CHINESE HAMSTER, DIABETIC

**METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA).** Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381

#### CHLORHEXIDINE

**TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS.** Schiott CR, Loe H, Briner WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) DL/76NOV140

#### CHLORMETHIAZOLE

**[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM]** Dobrzanski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipzig)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

#### P-CHLOROPHENOXYSOBUTYRATE

**EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS.** Mjos OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

### CHLORPROMAZINE

**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

### CHOLESTASIS, EXTRAHEPATIC

**[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS]** Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

### CHOLESTATIC HEPATITIS

**[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS]** Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

### CHOLESTEROL

**INTERACTIONS OF PROTEINS AND CHOLESTEROL WITH LIPIDS IN BILAYER MEMBRANES.** Kleemann M, McConnell HM *Biochim Biophys Acta* 419: 206-22, 21 Jan 76 (Eng) \*DL/76NOV425

### CHOLESTEROL METABOLISM

**CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM.** Friedman M, Byers SO *Metabolism* 25: 125-6, Jan 76 (Eng) \*DL/76NOV667

### CHOLESTEROL UPTAKE

**IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL.** Sarma JS, Fischer R, Ikeda S, Bing RJ *Proc Soc Exp Biol Med* 151: 303-6, Feb 76 (Eng) \*DL/76NOV568

### CHROMAFFIN GRANULE

**ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES.** PP 335-45. Kuriyama K, Nakagawa K *In0 Huxtable R, Barbeau A, ed. Taurine.* New York, Raven Press, 1975 W3 IN923E 1975t. (Eng) \*DL/76NOV639

### CHROMATOGRAPHY, COVALENT

**COVALENT CHROMATOGRAPHY - THE ISOLATION OF TRYPTOPHANYL CONTAINING PEPTIDES BY NOVEL POLYMERIC REAGENTS.** Rubinstein M, Shechter Y, Patchornik A *Biochem Biophys Res Commun* 70: 1257-63, 21 Jun 76 (Eng) DL/76NOV377

### CHROMOSOMAL

**LETTER: DIABETES MELLITUS, CHROMOSOMAL ABERRATION, AND MALIGNANCY.** Shaw JF, Kansal PC, Gatti RA *Lancet* 2: 315, 7 Aug 76 (Eng) DL/76NOV166

### CHRONOTROPIC

**EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART.** Clark CM Jr *Endocrinology* 99: 23-9, Jul 76 (Eng) DL/76NOV52

### CIRCADIAN RHYTHM

**CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Sensi S, Capani F *J Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

**CIRCADIAN RHYTHMS IN DISACCHARIDASES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE.** Saito M, Murakami E, Suda M *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) \*DL/76NOV431

### CIRCULAR DICHROISM

**CIRCULAR DICHROISM STUDIES ON THE INTERACTION OF SULFONYLUREAS WITH INSULIN.** Muller WE, Wollert U *Naunyn Schmiedebergs Arch Pharmacol* 293: 97-9, 24 Mar 76 (Eng) DL/76NOV185

### CIRCULATION

**[LETTER: OSTEOPOROSIS-CAUSED BY DECREASED BLOOD CIRCULATION IN THE BONES]** Krokowski E, Fricke M *Z Orthop* 114: 430-1, Jun 76 (Ger) DL/76NOV278

### CIRCULATOY SUPPORT

**SURVIVAL OF DOGS SUBJECTED TO PROFOUND HYPOTHERMIA WITH CIRCULATORY SUPPORT.** Zarins CK, Moossa AR, Skinner DB *Arch Surg* 111: 186-9, Feb 76 (Eng) \*DL/76NOV631

### CIRRHOSIS

**[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS]** Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

### CIRRHOSIS, HEPATIC

**[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS]** Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV188

### CIRRHOSIS, LIVER

**[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS]** Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

**[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS]** Moskivichev AM, Shlimovitch PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV284

### CITRATE

**OBSERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN.** Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landerson JH *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

### CITRATE TRANSPORT

**REGULATION OF CITRATE TRANSPORT IN RAT LIVER MITOCHONDRIA METABOLIZING PYRUVATE.** Stucki JW *FEBS Lett* 61: 171-5, 15 Jan 76 (Eng) \*DL/76NOV486

## Diabetes Literature—Keyword Index

### COENZYME A, ACETYL

DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHEZING POLYSOMES IN RAT LIVER. Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

### COENZYME A, ACYL

SELECTIVE INHIBITION OF ACYL-COA DEHYDROGENASES BY A METABOLITE OF HYPOGLYCIN. Keen EA *Biochem Biophys Acta* 422: 8-14, 23 Jan 76 (Eng) \*DL/76NOV432

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

### COENZYME A, PROPIONYL

MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE. Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

### COFFEE

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

### COLD CARDIOPLEGIA

[THE EFFECT OF COLD CARDIOPLEGIA ON MYOCARDIAL METABOLISM] Vainer EN, Kofanova NN *Biul Nauki* 43-7, 1975 (Rus) \*DL/76NOV442

### COLD STRESS

EFFECT OF COLD STRESS ON RAPESEED OIL-FED RATS. Hulman HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

### COLICIN K

MUTANT OF *ESCHERICHIA COLI* DEFECTIVE IN RESPONSE TO COLICIN K AND IN ACTIVE TRANSPORT. Plate CA *J Bacteriol* 125: 467-74, Feb 76 (Eng) \*DL/76NOV658

### COLLAGEN

PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES. Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) DL/76NOV141

### COLLAPSE SYNDROME

BIOCHEMICAL STUDIES OF THE COLLAPSE SYNDROME IN SUCKLED CALVES. Barber DM, Doxey DL *Vet Rec* 97: 424-8, 29 Nov 75 (Eng) \*DL/76NOV595

### COLON

RADIOLOGY NOW. THE COLON PACIFIED. Simpkins KC *Br J Radiol* 49: 303-5, Apr 76 (Eng) DL/76NOV19

SIGMOIDOVESICOCUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON. Parsa F, Passaro E *Am J Surg* 132: 105-7, Jul 76 (Eng) DL/76NOV312

### COLORIMETER

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

### COMA

INITIAL EVALUATION OF THE PATIENT IN COMA OR SHOCK. pp. 11-8. Goldberg TH *In* Findeiss JC, ed. *Emergency management of the critical patient*. New York, Stratton, 1975. W1 EM662H v2 1975. (Eng) DL/76NOV118

METABOLIC DISORDERS CAUSING COMA AND SHOCK. pp. 175-85. Taylor AL *In* Findeiss JC, ed. *Emergency management of the critical patient*. New York, Stratton, 1975. W1 EM662H v2 1975. (Eng) DL/76NOV119

### COMA, DIABETIC

TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES. Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiyama F, Inada H, Kitabatake A, Horii M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lutdk E, Robbe K, Rahn A, Schmalz H *Kinderarztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA] Berces G, Garas Z *Orv Hetil* 117: 1753-6, 18 Jul 76 (Hung) DL/76NOV199

[DIABETIC COMA ASSOCIATED WITH ACUTE PANCREATITIS] Ticele I, Fekete T *Rev Med Intern [Med Intern]* 28: 211-6, May-Jun 76 (Rum) DL/76NOV232

### COMA, HYPEROSMOLAR

HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION. Machado MC, Monteiro da Cunha JE, Margarido NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

[HYPEROSMOLAR COMA IN DIABETES MELLITUS] Saalieva RZ *Zdravookhr Kirg* 47-9, May-Jun 76 (Rus) DL/76NOV281

### COMMUNITY HEALTH CENTRE

THE CARE OF DIABETES MELLITUS AT A COMMUNITY HEALTH CENTRE. Smithurst BA *Aust Fam Physician* 5: 545-9, May 76 (Eng) DL/76NOV349

### COMPUTER

EVALUATION OF A DISCRETE-SAMPLE COMPUTER-DIRECTED CLINICAL ANALYZER. Forrester RL, Collinge W, Hashimoto P, Worrall J *Clin Chem* 22: 211-6, Feb 76 (Eng) \*DL/76NOV458

### CONTRACTILITY, MYOCARDIAL

### CONFORMATIONAL TRANSITION

[ION-DEPENDENT CONFORMATIONAL TRANSITIONS IN TRANSPORT ATPASE MEMBRANE PREPARATIONS] Raikhman LM, Moshkovskii IuS *Med Biol* 8: 768-74, Sep-Oct 74 (Rus) \*DL/76NOV553

### CONGENITAL MALFORMATION

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

### CONGESTIVE HEART FAILURE

BIOCHEMICAL AND CLINICAL EFFECTS OF METOLAZONE IN CONGESTIVE HEART FAILURE. Levey BA, Palmer RF *Curr Ther Res* 18: 641-51, Nov 75 (Eng) \*DL/76NOV650

### CONJUGATE

### UNUSUAL SPECIFICITIES OF ANTIBODIES TO

F1 GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garaud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

### CONJUNCTIVA

THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS. Shalash BA, El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

### CONSCIOUSNESS

WHEN LOSS OF CONSCIOUSNESS IS NOT CAUSED BY EPILEPSY. Bercaw BL *Geriatrics* 31: 95-7, Jul 76 (Eng) DL/76NOV655

### CONSTITUENT, BLOOD

CHANGES IN BLOOD CONSTITUENTS IN RATS ADMINISTERED MORPHINE AND SUBJECTED TO HE-Q2 AT 11 ATA. De Boer B, Tofano M *Aviat Space Environ Med* 47: 151-3, Feb 76 (Eng) \*DL/76NOV635

### CONTINUOUS FLOW ANALYZER

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

### CONTRACEPTIVE, ORAL

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyoon M, Dusitvan N, Poshyachinda V, Larson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

### CONTRACTILITY, MYOCARDIAL

EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM. Williams JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

## Diabetes Literature—Keyword Index

### CONVERSION

#### CONVERSION

CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

#### CORONARY DILATOR AGENT

[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPMIN. (2) ANALYSIS OF ITS MODE OF ACTION] Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

#### CORNEAL DYSTROPHY

[SCHNYDERS CORNEAL DYSTROPHY AND HYPERLIPIDEMIA (AUTHORS TRANSL] Kaden R, Feurle G *Albrecht von Graefes Arch Klin Ophthalmol* 198: 129-38, 4 Feb 76 (Ger) \*DL/76NOV625

#### CORONARY ARTERY

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkova J, Pejchalova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbaneck E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

#### CORONARY ARTERY DISEASE

REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE. Hamby RI, Sherman L, Mehta J, Aintablian A *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

#### CORONARY ARTERY OCCLUSION

EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS. Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

#### CORONARY FLOW

RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM. Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

#### CORONARY HEART DISEASE

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warnet JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

#### CORONARY LESION

DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS. Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

#### CORONARY MACROANGIOPATHY

[INCIDENCE OF CORONARY MACROANGIOPATHY IN CLINICALLY MANIFEST DIABETES MELLITUS] Leon A, Mincu I *Rev Med Intern [Med Intern]* 28: 41-8, Jan-Feb 76 (Rum) DL/76NOV230

#### CORONARY OCCLUSION

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjos OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

#### CORPUS ALLATUM

[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX] Gourdoux L *C R Soc Biol (Paris)* 169: 941-5, 1975 (Fre) \*DL/76NOV453

#### CORPUS CARDIACUM

[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX] Gourdoux L *C R Soc Biol (Paris)* 169: 941-5, 1975 (Fre) \*DL/76NOV453

#### CORTEX, CEREBRAL

ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX. Brendel K, Meezan E, Carlson EC *Science* 185: 953-5, 13 Sept 74 (Eng) \*DL/76NOV584

#### CORTICAL

CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA. Kirshner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) \*DL/76NOV633

#### CORTICOSTEROID BINDING GLOBULIN

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

#### CORTICOSTERONE

THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT. Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

#### CORTICOTROPIC

PROLONGED CORTICOTROPIC ACTION OF SYNTHETIC HUMAN ACTH IN MAN. Baumann G, Felber JP *J Clin Endocrinol Metab* 42: 160-3, Jan 76 (Eng) \*DL/76NOV523

#### CORTISOL

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF

LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS] Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGININE AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

#### CORTISOL, URINE

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

#### COUPLING

ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT. Kitagawa T, Aikawa T *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) DL/76NOV86

ENERGETIC COUPLING OF AMINO ACID TRANSPORT. PP. 107-15. Heinz E, Pietrzak C, Geck P, Pfeiffer B *Inn Gardos G, Szasz I, ed. Biomembranes* structure and function. Amsterdam, North-Holland, 1975. *W3 FE322 9th 1974 v.35. (Eng)* \*DL/76NOV392

MODES OF COUPLING OF ENERGY WITH TRANSPORT. PP. 85-97. Kotyk A *Inn Gardos G, Szasz I, ed. Biomembranes* structure and function. Amsterdam, North-Holland, 1975. *W3 FE322 9th 1974 v.35. (Eng)* \*DL/76NOV405

MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. I. COUPLING BETWEEN WEAK ELECTROLYTE FLUXES. Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 15-26, 15 Jan 76 (Eng) \*DL/76NOV434

MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. II. COUPLING BETWEEN STRONG ELECTROLYTE FLUXES. Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 27-41, 15 Jan 76 (Eng) \*DL/76NOV435

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HALOBIA. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

#### COUPLING, STIMULUS-SECRETION

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL? Sener A, Levy J, Malaise WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

#### CULTURE

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Leyh T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV600

INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE. Ghanbari H, McCarl RL

## Diabetes Literature—Keyword Index

### DEGRADATION

*J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

**SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matac AJ, Sutherland DE, Steffen MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

**LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE.** Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

**ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION.** Nakane H, Fawcett CF, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE.** Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

**POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS.** Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

**THE ISOLATION AND CULTURE OF CAPILLARY ENDOTHELIUM FROM EPIDIDYMAL FAT.** Wagner RC, Matthews MA *Microvasc Res* 10: 286-97, Nov 75 (Eng) \*DL/76NOV551

#### CULTURED FIBROBLAST

**EFFECTS OF SUGARS ON THE PHYSIOLOGY OF CULTURED FIBROBLASTS.** Johnson GS, Schwartz JP *Exp Cell Res* 97: 281-90, Feb 76 (Eng) \*DL/76NOV481

#### CUSHINGS SYNDROME

**[BIOCHEMICAL FORM OF A PARANEOPLASTIC CUSHINGS SYNDROME (AUTHORS TRANSL)]** Strohfeldt P *Munch Med Wochenschr* 118: 883-4, 2 Jul 76 (Ger) DL/76NOV179

**[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME]** Bogatryev OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

**DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME.** Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525

#### CUTANEOUS MICROVESSEL

**CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS.** Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

### CYCLASE, ADENYLATE

**IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY.** Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

**ACTIVATION BY GTP OF LIVER ADENYLATE CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP.** Kimura N, Nakane K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

**COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLATE CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON.** Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) DL/76NOV380

**REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIANATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN ESCHERICHIA COLI.** Saier MH Jr, Feucht BU, Hofstatter LJ *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

**PROCEEDINGS: A ROLE FOR LIPIDS IN THE ACTIVATION OF ADENYLATE CYCLASE BY CATECHOLAMINE.** Orly J, Schramm M *Isr J Med Sci* 11: 1195, Nov 75 (Eng) \*DL/76NOV656

### CYCLIC AMP

**SEE ADENOSINE-3,5-CYCLOCYTIC MONOPHOSPHATE**

### CYCLIC NUCLEOTIDE

**INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE.** Ghanbari H, McCarl RL *J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

**[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION]** Iudaea N, Afinogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrmen Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601

### CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY

**LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE.** Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

### CYNOMOLGUS

**ATHEROSCLEROSIS IN RHESUS AND CYNOMOLGUS MONKEYS.** Armstrong ML *Primates Med* 9: 16-40, 1976 (Eng) [67] \*DL/76NOV673

### CYTOCHROME

**[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPERDA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE]** Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

### CYTOSOL

**PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS.** Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

**FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO.** Haefner EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

### CYTOTOXICITY

**PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO.** Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

### DAIRY COW

**OBSEVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS.** Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

### DAUNOMYCIN

**EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULI.** Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

### DEAFNESS

**RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS.** Page MM, Asmal AC, Edwards CR *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

### DEATH

**[EXPEDIENCY OF STUDYING MULTIPLE CAUSES OF DEATH]** Sorokin ES *Vrach Delo* 96-9, Dec 75 (Rus) DL/76NOV271

### DECARBOXYLATION

**ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT.** Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

### DECEASED

**DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS.** Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

### DEGRADATION

**RETENTION AND DEGRADATION OF 125I-IN-SULIN BY PERFUSED LIVERS FROM DIABETIC RATS.** Terrius S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

**SELECTIVE CONTROL OF THE DEGRADATION OF NORMAL AND ABERRANT PROTEINS IN REUBER H35 HEPATOMA**

## Diabetes Literature—Keyword Index

### DEGRADATION, INSULIN

CELLS. Knowles SE, Ballard FJ *Biochem J* 156: 609-17, 13 Jun 76 (Eng) DL/76NOV372  
REGULATION OF DEGRADATION OF THYROTROPIN RELEASING HORMONE BY THYROID HORMONES. Bauer K *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

### DEGRADATION, INSULIN

INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

### DEHYDROGENASE

NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESO AND NONOBESO DIABETICS. Belfiore F, LoVecchio L, Borzi V *Metabolism* 25: 723-5, Jul 76 (Eng) DL/76NOV173

SELECTIVE INHIBITION OF ACYL-COA DEHYDROGENASES BY A METABOLITE OF HYPOGLYCIN. Kean EA *Biochim Biophys Acta* 422: 8-14, 23 Jan 76 (Eng) \*DL/76NOV432

### DEHYDROGENASE, ESTRADIOL

SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS. Primicerio M, Plotti G, Montemurro A, Moneta E, Bonpani A *Ann Ostei Ginecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

### DEHYDROGENASE, GLUTAMATE

CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE. Khilmar M, Uong DS *Biochimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

### DEHYDROGENASE, LACTATE

PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES. Boland MJ, Gutfreund H *Biochem J* 151: 715-27, Dec 75 (Eng) \*DL/76NOV637

### DEHYDROGENASE, PYRUVATE

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederabaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS. Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

### DEHYDROGENASE, SUCCINATE

PHOSPHOFRUCTOKINASE AND SUCCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE. Ianuzzo CD, Armstrong RB *Horm Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV78

EFFECT OF GLUCOSE AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE ON THE SYNTHESIS OF SUCCINATE DEHYDROGENASE AND ISOCITRATE LYASE IN *ESCHERICHIA COLI*. Takahashi Y *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng) \*DL/76NOV511

### DELIRIUM, ALCOHOL

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzański T, Pieschi D *Psychiatr Neural Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

### DENERVATION

[ENERGY SUPPLY OF THE ARTERIAL WALL AFTER ITS DENERVATION] Smikudob A I *Patol Fiziol Eksper Ter* 34-7, Sep-Oct 75 (Rus) \*DL/76NOV670

### DENTAL PROFESSION

CONSIDERATIONS IN EXAMINATION: AN OVERVIEW FOR THE DENTAL PROFESSION. Calderone CV *RI Dent J* 8: 16-8 CONTD, Sep 75 (Eng) DL/76NOV238

### DEPRESSION

ENDOCRINE STUDIES IN DEPRESSION. PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E *In* Endo M, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

### DERMATOLOGIC

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreux C, Stachow A *Ann Dermatol Syphiligr (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

### DERMATOLOGIC DISEASES

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreux C, Stachow A *Ann Dermatol Syphiligr (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

### DERMIS

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

### DETECTION

GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION. PP. 91-106. Kraft JR *In* Hunter OB Jr, ed. *Radioassay clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 59892r 1974. (Eng) DL/76NOV124

### DETERMINANT COMPETITION

DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY

GUINEA-PIG. Hollins PJ, Smith GH, Himsworth RL *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) DL/76NOV33

### DEVELOPMENTAL HORMONE

GROWTH AND DEVELOPMENTAL HORMONES AS CHEMICAL MESSENGERS. PP. 261-78. Tata JR *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [2] \*DL/76NOV394

### DEXAMETHASONE

LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE. Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM. Anonymous *Nutr Rev* 34: 185-7, Jun 76 (Eng) [9] DL/76NOV191

### DEXTROSE

OBSERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN. Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Wittime MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

### DIABETES, EXPERIMENTAL

EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITHEC RATS TO AUTONOMIC AGENTS. Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT. Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

ISOLATED ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES. Gray BN, Watkins E Jr *Aust J Exp Biol Med Sci* 54: 57-70, Feb 76 (Eng) DL/76NOV350

### DIABETES, GESTATIONAL

PLACENTAL CHANGES IN GESTATIONAL DIABETES. AN ULTRASTRUCTURAL STUDY. Jones CJ, Fox H *Obstet Gynecol* 48: 274-80, Sep 76 (Eng) DL/76NOV197

### DIABETES INSIPIDUS

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 383-412, Jul 76 (Eng) DL/76NOV193

RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS. Page MM, Asmal AC, Ed-

## Diabetes Literature—Keyword Index

wards CR *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

### DIABETES, JUVENILE ONSET

PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. I. IDENTIFYING THE PROBLEM PATIENT. Lum BO *J Am Diet Assoc* 69: 157-61, Aug 76 (Eng) DL/76NOV111

PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT. Lum BO *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) DL/76NOV112

LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES. Scherthauer G, Ludwig H, Mayr WR, Willenseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

### DIABETES, LONG TERM

CAPILLARY FILTRATION COEFFICIENT IN SHORT AND LONG-TERM DIABETES. Nielsen SL, Poulsen HL *Bih Anat* 13: 78-9, 1975 (Eng) DL/76NOV354

### DIABETES, MATERNAL

THE EPITHELIAL AND CAPILLARY BASAL LAMINA OF THE PLACENTA IN MATERNAL DIABETES MELLITUS. Emmrich P, Fuchs U, Heinke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

### DIABETES MELLITUS

CLINICAL TYPES OF DIABETES MELLITUS. Zimmet P *Aust Fam Physician* 5: 228-31, Mar 76 (Eng) DL/76NOV343

### DIABETES MELLITUS, INSULIN DEPENDENT

HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS. Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

### DIABETES, SENILE

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Lindbjerf IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskrift Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

### DIABETES, SPONTANEOUS

[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD] Nowakowski T, Wasikowa R *Kinderarztl Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

SPONTANEOUS DIABETES MELLITUS IN A TURTLE. Frye FL, Dutra FR, Carney JD, Johnson B *Vet Med Small Anim Clin* 71: 935-9, Jul 76 (Eng) DL/76NOV267

### DIABETES, STREPTOZOTOCIN

PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES. Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) DL/76NOV141

### DIABETIC, INSULIN DEPENDENT

[THE LECITHIN-SPHINOGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCIES] Tchobroutsky C, Cedar L, Rouvillois JL, Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

### DIABETIC KETOACIDOSIS, SEVERE

MULTIPLE COMPLICATIONS IN SEVERE DIABETIC KETOACIDOSIS. A SHORT REVIEW OF THE LITERATURE. Clarke BF, Campbell IW *Acta Diabetol Lat* 12: 327-37, Sep-Dec 75 (Eng) DL/76NOV288

### DIABETIC MOTHER

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

### DIABETIC NEUROPATHY

DIABETIC NEUROPATHY: CLINICAL MANIFESTATIONS, DIAGNOSIS, AND MANAGEMENT. Lovrien F, Shipp JC *Nebr Med J* 61: 218-22, Jul 76 (Eng) DL/76NOV186

### DIABETIC PATIENT

INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS. Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

[IMMUNOLOGICAL DISORDERS IN DYSGAMMAGLOBULINEMIA TYPE VII IN A DIABETIC PATIENT] Rogale E, Felus E, Wiegli A *Pol Tyg Lek* 31: 793-5, 10 May 76 (Pol) DL/76NOV209

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Bryngel H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59: 62-67 Mar 75 (Eng) DL/76NOV241

A REASSESSMENT OF THE PROGNOSIS OF DIABETIC PATIENTS TREATED BY CHRONIC HEMODIALYSIS (CHD). Comty CM, Kjellstrand D, Shapiro FL *Trans Am Soc Artif Intern Organs* 22: 404-11, 1976 (Eng) DL/76NOV264

INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION. Penchev II, Shishova AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS. Zaky DA, Bentley DW, Lowy K, Betis RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT. Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

### DIABETIC PATIENT, SURGICAL

HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT. Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

### DIABETIC, PREGNANT

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD,

### DIAGNOSTIC PROBLEM

Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notevitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

### DIABETIC RETINOPATHY, PROLIFERATIVE

PROLIFERATIVE DIABETIC RETINOPATHY. Siam AL *Bull Ophthalmol Soc Egypt* 68: 353-63, 1975 (Eng) DL/76NOV15

### DIABETIC SUBJECT

CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS. Bennett T, Hosking DJ, Hampton JR *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

### DIAGNOSING DIABETES MELLITUS

METHODS OF DIAGNOSING DIABETES MELLITUS. Burgess JA *Aust Fam Physician* 5: 49-52, Jan-Feb 76 (Eng) DL/76NOV342

### DIAGNOSIS

NEPHROTIC SYNDROME: ETIOLOGY, DIAGNOSIS, AND TREATMENT. Finkelstein FO, Haylett JP *Geriatrics* 31: 39-44, 48, Aug 76 (Eng) [46] DL/76NOV66

DIABETIC NEUROPATHY: CLINICAL MANIFESTATIONS, DIAGNOSIS, AND MANAGEMENT. Lovrien F, Shipp JC *Nebr Med J* 61: 218-22, Jul 76 (Eng) DL/76NOV186

HYPERSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204

[FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM] Starkova NT *Sov Med* 104-10, Sept 75 (Rus) DL/76NOV247

[POSSIBILITIES OF RADIOTRACER DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS] Ignatov A, Karastanov I, Minchev M *Urol Nefrol (Mosk)* 13-6, Sept-Oct 75 (Rus) DL/76NOV263

### DIAGNOSIS, ANGIOGRAPHIC

[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT] Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

### DIAGNOSIS, EXHALATION

[EXHALATION DIAGNOSIS WITH C14 TAGGED COMPOUNDS, METHODS AND RESULTS] Lutolf U, Glanzmann C, Renk IW, Horst W *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

### DIAGNOSTIC PROBLEM

ON THE RELATION OF GENITAL TO URINARY TRACT INFECTIONS. DIAGNOSTIC PROBLEMS. PP. 193-9. Fritz H *Int Danielsson D, et al., ed. Genital infections and their complications. Stockholm, Almgvist & Wiksell, 1975. WC 140 S988p* 1974. (Eng) DL/76NOV117

## Diabetes Literature—Keyword Index

### DIALYSIS

#### DIALYSIS

**DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS.** Roed-Petersen K, Thyssen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

#### DIALYSIS, PERITONEAL

**GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE.** Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

#### DIAZEPAM

**PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS.** Thiessen JJ, Sellers EM, Denbigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

#### DIAZOXIDE

**LETTER: DIAZOXIDE-DIPHENYLHYDANTOIN INTERACTION.** Petro DJ, Vannucci RC, Kulin HE *J Pediatr* 89: 331-2, Aug 76 (Eng) DL/76NOV139

#### DICHLROISM, CIRCULAR

**CIRCULAR DICHLROISM STUDIES ON THE INTERACTION OF SULFONYLUREAS WITH INSULIN.** Muller WE, Wollert U *Naunyn Schmiedebergs Arch Pharmacol* 293: 97-9, 24 Mar 76 (Eng) DL/76NOV185

#### DIET

**BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN.** Kiehm TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

**PRINCIPLES OF DIET FOR DIABETES.** Chisholm D *Aust Fam Physician* 5: 349-50, Apr 76 (Eng) DL/76NOV344

**ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET.** Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

**EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBESE RATS.** Kolotsky S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

**RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID.** Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

#### DIET, CHOLESTEROL

**(THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN)** Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

#### DIET, LOW CARBOHYDRATE

**THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET.** Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

#### DIETARY

**ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERURICEMIA IN THE RAT.** Spencer HW, Yarger WE, Robinson RR *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

**DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A POLYSOMES IN RAT LIVER.** Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

**EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP.** Prior RL *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

**DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS.** Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

#### DIETARY FATTY ACID

**EFFECT OF DIETARY FATTY ACIDS WITH TRANS-DOUBLE BONDS.** Thiele OW *Hipokrates* 46: 247-9, Jun 75 (Ger) \*DL/76NOV505

#### DIETARY LIPID

**INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL.** Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

#### DIETARY MANAGEMENT

**CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON.** Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV332

#### DIFFERENTIATION, CELLULAR

**BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS.** Beck DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### DIFTALONE

**COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN.** Assandri A, Perazzi A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

#### L-3,4-DIHYDROXYPHENYLALANINE

**[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS]** Palazzuoli V, Gragnoli G, Favilli R, Tangenelli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

#### DIPHENYLHYDANTOIN

**LETTER: DIAZOXIDE-DIPHENYLHYDANTOIN INTERACTION.** Petro DJ, Vannucci RC, Kulin HE *J Pediatr* 89: 331-2, Aug 76 (Eng) DL/76NOV139

**[EFFECT OF TOLBUTAMIDE ON PLASMA INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANS)]** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

#### DISACCHARIDASE

**CIRCADIAN RHYTHMS IN DISACCHARIDASES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE.** Saito M, Murakami E, Suda M *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) \*DL/76NOV431

#### DISEASE

**SIGMOIDOVESICOCUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON.** Parsa F, Passaro E *Am J Surg* 132: 105-7, Jul 76 (Eng) DL/76NOV312

#### DISORDER, METABOLIC

**METABOLIC DISORDERS CAUSING COMA AND SHOCK.** PP. 175-85. Taylor AL *Emergency management of the critical patient*, New York, Stratton, 1975. WI EM662H v2 1975. (Eng) DL/76NOV119

#### DIURNAL VARIATION

**DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

**GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS.** Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

#### DIVERTICULAR DISEASE

**SIGMOIDOVESICOCUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON.** Parsa F, Passaro E *Am J Surg* 132: 105-7, Jul 76 (Eng) DL/76NOV312

#### DIVISION

**EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS.** Gospodarowicz D, Wessman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

#### DOPAMINE

**DOPAMINE EFFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING AND LEVER-PRESSING FOR FOOD.** Martin GE, Myers RD *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

## Diabetes Literature—Keyword Index

### ENDOTHELIUM

**COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLATE CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON.** Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) DL/76NOV380

**IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM.** Kafka MS, Holz RW *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

**LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION.** Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

**ADENOSINE 3,5-CYCLOC MONOPHOSPHATE IN PERFUSED RAT HEARTS EXPOSED TO ISOPRENALINE AND DOPAMINE.** Osnes JB, Oye I *Acta Physiol Scand* 96: 100-13, Jan 76 (Eng) \*DL/76NOV607

#### DOSEAGE, GLUCAGON

**[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)]** Andel M, Brodan V, Kuhn E *Cas Lek Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

#### DRINKING

**DOPAMINE EFFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING AND LEVER-PRESSING FOR FOOD.** Martin GE, Myers RD *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

**[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE]** Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

#### DRY PERIOD

**OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS.** Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

#### DUAL-LABELED TECHNIQUE

**DUAL-LABELED TECHNIQUE FOR HUMAN LIPID METABOLISM STUDIES USING DEUTERATED FATTY ACID ISOMERS.** Emken EA, Rohwedder WK, Dutton HJ *Lipids* 11: 135-42, Feb 76 (Eng) \*DL/76NOV548

#### DUCT LIGATED

**TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT.** Brynger H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

#### DUCT, STENOSIS

**[STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF STENOSIS DUCT]** Orlenko MA, Kolesnikov RN *Stomatologija (Mosk)* 54: 85-6, May-Jun 75 (Rus) \*DL/76NOV593

#### DUODENAL ULCER

**INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METIA-**

MIDE, AN H<sub>2</sub>-HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

**EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLORPLASTY.** Juler GL, Digradi AE, Stempien SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

#### DYSGAMMAGLOBULINEMIA

**[IMMUNOLOGICAL DISORDERS IN DYSGAMMAGLOBULINEMIA TYPE VII IN A DIABETIC PATIENT]** Rogala E, Felus E, Wiegli A *Pol Tyg Lek* 31: 793-5, 10 May 76 (Pol) DL/76NOV209

#### DYSGLYCEMIA

**LETTER: PAINFUL TEETH AND DYSGLYCEMIA.** Ringsdorf WM Jr, Cheraskin E *JAMA* 231: 23-4, 6 Jan 75 (Eng) \*DL/76NOV541

#### ELECTRICAL RESPONSE

**PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM.** Alwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

#### ELECTRODIFFUSION

**EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFFUSION IN LIPID BILAYER MEMBRANES.** Bradshaw RW, Robertson CR J *Membr Biol* 25: 93-114, 4 Dec 75 (Eng) \*DL/76NOV540

#### ELECTROLYTE

**ACTIVE TRANSPORT OF ELECTROLYTES AND NONELECTROLYTES IN THE INTESTINAL EPITHELIUM.** PP. 99-106. Csaky TZ. In *Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV386

#### ELECTROLYTE FLUX

**MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. I. COUPLING BETWEEN WEAK ELECTROLYTE FLUXES.** Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 15-26, 15 Jan 76 (Eng) \*DL/76NOV434

**MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. II. COUPLING BETWEEN STRONG ELECTROLYTE FLUXES.** Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 27-41, 15 Jan 76 (Eng) \*DL/76NOV435

#### ELECTROMYOGRAPHY

**SINGLE FIBRE ELECTROMYOGRAPHY FOR MOTOR UNIT STUDY IN MAN.** PP. 79-92. Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H In *Shahani M, ed. The motor system: neurophysiology and muscle mechanisms.* Amsterdam, Elsevier, 1976. WE 102 M919 1974. (Eng) DL/76NOV130

#### ELECTRON MICROSCOPY

**IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL.** PP. 433-50. Pelletier G In *Labrie F, et al., ed. Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) [23] DL/76NOV126

### ENDOTHELIUM

#### ELECTRONIC BUBBLE GATE

**HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS.** Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

#### EMBRYO, SEA URCHIN

**TERATOGENIC EFFECT OF TOLBUTAMIDE ON THE DEVELOPMENT OF THE SEA URCHIN EMBRYO (PARACENTROTUS LIVIDUS LAMARCK).** Hagstrom BE, Lonning S *Experientia* 32: 744-6, 15 Jun 76 (Eng) DL/76NOV56

#### EMBRYO TELEOST

**[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OOCYTES AND EMBRYOS OF TELEOSTS]** Iurovskii IUG, Milman LS *Biokhimiia* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440

#### ENDOCRINE

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

#### ENDOCRINE STUDIES IN DEPRESSION.

PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E In *Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

**ENDOCRINE AND METABOLIC DISEASE. OBESITY.** Munro JF *Br Med J* 1: 388-90, 14 Feb 76 (Eng) \*DL/76NOV447

#### ENDOCRINE PANCREAS

**[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]** Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

**SOMATOSTATIN AND THE ENDOCRINE PANCREAS.** PP. 127-43. Gerich JE In *Labrie F, et al., ed. Hypothalamus and endocrine functions.* New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) [53] DL/76NOV127

#### ENDOCRINOPATHY

**ENDOCRINOPATHY IN THALASSAEMIA MAJOR.** McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

#### ENDOGENOUS RESPIRATION

**[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPHERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE]** Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologija* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

#### ENDOTHELIUM

**MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS**

## Diabetes Literature—Keyword Index

### ENDOTHELIUM, CAPILLARY

PRESERVED. Morrison AD, Berwick L, Orci L, Winegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

### ENDOTHELIUM, CAPILLARY

THE ISOLATION AND CULTURE OF CAPILLARY ENDOTHELIUM FROM EPIDIDYMAL FAT. Wagner RC, Matthews MA *Microvasc Res* 10: 286-97, Nov 75 (Eng) \*DL/76NOV551

### ENDOTOXEMIA

EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK? O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

### ENERGY

MODES OF COUPLING OF ENERGY WITH TRANSPORT. PP. 85-97. Kotyk A *In: Gardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV405

[ENERGY SUPPLY OF THE ARTERIAL WALL AFTER ITS DENERVATION] Smikdub A *Patol Fiziol Eksp Ter* 34-7, Sep-Oct 75 (Rus) \*DL/76NOV670

### ENERGY COUPLING

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOMIL. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

### ENERGY METABOLISM

PERINATAL ENERGY METABOLISM. PP. 104-19. Sinclair JC, Warshaw JB *In: Hafez ES, ed. The mammalian fetus: comparative biology and methodology*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV406

[CHANGES IN ENERGY METABOLISM IN SEVERE TISSUE TRAUMA] Aarimaa M *Acta Endocrinol (Helsinki)* 91: 1203-12, 1975 (Fin) \*DL/76NOV466

REGULATION OF MYOCARDIAL ENERGY METABOLISM. Illingworth JA, Ford WC, Kobayashi K, Williamson JR *Recent Adv Stud Cardiol Struct Metab* 8: 271-90, 1975 (Eng) \*DL/76NOV575

### ENERGY REQUIREMENT

LETTER: ENERGY REQUIREMENTS OF MEMBRANE PUMPS. Minkoff L, Damadian R N *Eng J Med* 292: 162-3, 16 Jan 75 (Eng) \*DL/76NOV669

### ENTERIC HORMONE

ENTERIC HORMONES AND INSULIN RELEASE IN ADDISON'S DISEASE. Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) \*DL/76NOV73

### ENVIRONMENT

PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT. Lum BO *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) \*DL/76NOV112

RESISTANCE OF INTESTINAL TRIGLYCERIDE TRANSPORT CAPACITY IN THE RAT TO ADAPTATION TO ALTERED LUMINAL ENVIRONMENT. Wu AL, Bennett

Clark S *Am J Clin Nutr* 29: 157-68, Feb 76 (Eng) \*DL/76NOV620

### ENZYMIC DISSOCIATION

ENZYMIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION. Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

### ENZYME

CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT. Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) \*DL/76NOV136

THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES. Cedola N, Cabarrus A, Auciello N, Doria I, Ponce de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) \*DL/76NOV282

REGULATION OF ENZYMES IN SITU. PP. 211-21. Sols A *In: Keleti T, ed. Mechanism of action and regulation of enzymes*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV409

THE CONTROL OF PYRUVATE KINASE OF *Escherichia coli*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwall BD *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OCYTOCITES AND EMBRYOS OF TELEOSTS] Iurovitskii IUG, Milman L *Biokhimiya* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440

[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT] Aumailley M, Razaka G, Lartruc J, Bricaud H *C R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) \*DL/76NOV449

PURIFICATION AND SOME PROPERTIES OF A MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE. Tornqvist H, Belfrage P *J Biol Chem* 251: 813-9, 10 Feb 76 (Eng) \*DL/76NOV512

REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN *Escherichia coli*. Saier MH Jr, Feucht BU, Hofstader LJ *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

### ENZYME ACTIVITY

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

### ENZYME COUPLED IMMUNOASSAY

ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT.

Kitagawa T, Aikawa T *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) \*DL/76NOV86

### ENZYME, GLUCONEOGENETIC

EFFECT OF AERATION ON THE ACTIVITY OF GLUCONEOGENETIC ENZYMES IN *SACCHAROMYCES CEREVISIAE* GROWING UNDER GLUCOSE LIMITATION. Haarsilta S, Oura E *Arch Microbiol* 106: 271-3, 31 Dec 75 (Eng) \*DL/76NOV630

### ENZYME, GLYCOLYTIC

X-RAY STUDIES OF GLYCOLYTIC ENZYMES. Blake CC *Essays Biochem* 11: 37-79, 1975 (Eng) [67] \*DL/76NOV479

### ENZYME, LIPOGENIC

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) \*DL/76NOV67

### EPICARDIAL ST-SEGMENT

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjos OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

### EPIDEMIOLOGY

[CANCER OF THE PANCREAS. EPIDEMIOLOGY AND EXPERIMENTAL CARCINOGENESIS] Pelfrene AF *Arch Fr Mal App Dig* 65: 161-8, Mar 76 (Fre) [46] \*DL/76NOV334

### EPIDIDYMAL FAT

THE ISOLATION AND CULTURE OF CAPILLARY ENDOTHELIUM FROM EPIDIDYMAL FAT. Wagner RC, Matthews MA *Microvasc Res* 10: 286-97, Nov 75 (Eng) \*DL/76NOV551

### EPIDIDYMAL FAT PAD

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) \*DL/76NOV138

### EPILEPSY

WHEN LOSS OF CONSCIOUSNESS IS NOT CAUSED BY EPILEPSY. Bercaw BL *Geriatrics* 31: 95-7, Jul 76 (Eng) \*DL/76NOV65

[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY] Brodskain NI, Zotov Iu V, Shchedrenok VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

### EPINEPHRINE

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY. Carpentier JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) \*DL/76NOV132

EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN

## Diabetes Literature—Keyword Index

### EXCHANGE TRANSFUSION

**HEREDITARY DIABETIC MICE.** Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

**EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO.** Dominguez MC, Herrera E *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

**PERIFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS.** Allen DO, Katocs AS Jr, Largis EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

#### EPITHELIAL

**THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNALE DIABETES MELLITUS.** Emrich P, Fuchs U, Heineke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

#### EPITHELIAL CELL, INTESTINAL

**SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM.** Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

#### EPITHELIUM, INTESTINAL

**ACTIVE TRANSPORT OF ELECTROLYTES AND NONELECTROLYTES IN THE INTESTINAL EPITHELIUM. PP. 99-106.** Csaky TZ, Ino Gárdos G, Szasz I, ed. *Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV386

#### ERITREHA

**[INCIDENCE AND COURSE OF DIABETS AS WELL AS ITS COMPLICATIONS IN ERITREHA UNDER CONDITIONS OF MALNUTRITION AND IRREGULAR INSULIN TREATMENT]** Szadkowski M *Pol Tyg Lek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

#### ERYTHROCYTE

**[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL]** Gasinska T, Gburek Z *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

**THE REGULATION OF GLYCOLYSIS IN ERYTHROCYTES. PP. 195-209.** Rapoport SM, Rapoport TA, Heinrich R, Ino Keleti T, ed. *Mechanism of action and regulation of enzymes.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV418

**INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES.** Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

#### ERYTHROCYTE, TURKEY

**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

#### ERYTHROID CELL

**MATURATION OF MEMBRANE FUNCTION: TRANSPORT OF AMINO ACID BY RAT ERYTHROID CELLS.** Wise WC *J Cell Physiol* 87: 199-201, Dec 75 (Eng) \*DL/76NOV519

#### ESCHERICHIA COLI

**THE CONTROL OF PYRUVATE KINASE OF ESCHERICHIA COLI BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE.** Waygood EB, Mort JS, Sanwal BD *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

**RANDOMIZATION OF MEMBRANE LIPIDS IN RELATION TO TRANSPORT SYSTEM ASSEMBLY IN ESCHERICHIA COLI.** Thilo L, Overath P *Biochemistry* 15: 328-34, 27 Jan 76 (Eng) \*DL/76NOV424

**EFFECT OF GLUCOSE AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE ON THE SYNTHESIS OF SUCINATE DEHYDROGENASE AND ISOCITRATE LYASE IN ESCHERICHIA COLI.** Takahashi Y *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng) \*DL/76NOV511

**REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN ESCHERICHIA COLI.** Saier MH Jr, Feucht BU, Hofstaetter LJ *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

**MUTANT OF ESCHERICHIA COLI DEFECTIVE IN RESPONSE TO COLICIN K AND IN ACTIVE TRANSPORT.** Plate CA *J Bacteriol* 125: 467-74, Feb 76 (Eng) \*DL/76NOV658

#### ESOPHAGEAL

**[MORPHOLOGY OF ESOPHAGEAL AND GASTRIC MUCOSA IN DIABETES]** Włodarczyk D *Pol Tyg Lek* 31: 829-32, 17 May 76 (Pol) DL/76NOV210

#### ESOPHAGUS

**ESOPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS.** Stewart IM, Hosking DJ, Preston BJ, Atkinson M *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

#### ESTERASE, ISOENZYME

**[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY]** Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

#### ESTRADIOL DEHYDROGENASE

**[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS]** Primicerio M, Plotti G, Montemurro A, Moneta E, Bompani A *Ann Ostet Ginecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

#### ESTROGEN

**THE EFFECTS OF ESTROGENS ON REGIONAL ADIPOSE TISSUE CELLULARITY IN THE RAT.** Krotkiewski M *Acta Physiol Scand* 96: 128-33, Jan 76 (Eng) \*DL/76NOV608

#### ESTROGEN THERAPY

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

#### ETHANOL

**ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM.** Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

**[USE OF ETHANOL NATURALLY ENRICHED IN CARBON 13 FOR METABOLIC STUDIES]** Bricout J, Le Bourhis B, Koziel J C R Soc Biol (Paris) 169: 904-11, 1975 (Fre) \*DL/76NOV452

**[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCODOERA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE]** Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

#### ETHANOL INGESTION

**IMPAIRMENT OF MITOCHONDRIAL FATTY ACID OXIDATION BY CHRONIC ETHANOL INGESTION.** Anonymous *Nutr Rev* 34: 23-5, Jan 76 (Eng) [10] \*DL/76NOV562

#### ETHOXYQUIN

**THE EFFECT OF ETHOXYQUIN ON THE INTESTINAL TRANSPORT OF GLUCOSE AND WATER IN VITRO.** Skaare JU *Acta Pharmacol Toxicol (Kh)* 38: 174-6, Feb 76 (Eng) \*DL/76NOV606

#### ETHYLMORPHINE

**KINETIC STUDIES ON THE METABOLISM OF ETHYLMORPHINE BY ISOLATED HEPATOCYTES FROM ADULT RATS.** Erickson RR, Holtzman JL *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

#### EVISCERATED DOG

**PLASMA GLUCAGON AFTER KIDNEY EXCISION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN EVISCERATED DOGS.** Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, Jul 76 (Eng) DL/76NOV174

#### EVOLUTION, MOLECULAR

**MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES.** Acher R *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] DL/76NOV43

#### EXCHANGE

**PHOSPHOLIPID EXCHANGE BETWEEN BILAYER MEMBRANE VESICLES.** Martin FJ, MacDonald RC *Biochemistry* 15: 321-7, 27 Jan 76 (Eng) \*DL/76NOV423

#### EXCHANGE TRANSFUSION

**[HYPOGLYCAEMIA IN NEONATES FOLLOWING EXCHANGE TRANSFUSION (AUTHORS TRANS)]** Hervei S *Monatsschr Kinderheilkd* 124: 548-50, Jul 76 (Eng) DL/76NOV178

## Diabetes Literature—Keyword Index

### EXCRETION

#### EXCRETION

24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS. Levinsky RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) \*DL/76NOV331

#### EXCRETION, URINARY METABOLITE

EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP. Prior RL *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

#### EXERCISE

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) \*DL/76NOV142

#### EXERCISE, MUSCULAR

ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT. Feder-spil G, Udeschini G, De Palo C, Sicioli N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

#### EXERCISING

A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT. Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) \*DL/76NOV373

#### EXERTION

[THE RELATIONSHIP BETWEEN PRE-EXERCITAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY] Krasnova AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol Zh SSSR* 61: 530-6, Apr 75 (Rus) \*DL/76NOV489

#### EXHALATION

[EXHALATION DIAGNOSIS WITH C14 TAGGED COMPOUNDS, METHODS AND RESULTS] Lutolf UM, Glanzmann C, Renk IW, Horst W *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

#### EXPOSURE

LACK OF THE CORRELATION BETWEEN BIOCHEMICAL EFFECTS ON RATS AND BLOOD CARBOXYHEMOGLOBIN CONCENTRATIONS IN VARIOUS CONDITIONS OF SINGLE ACUTE EXPOSURE TO CARBON MONOXIDE. Sokal JA *Arch Toxicol (Berl)* 34: 331-6, 18 Dec 75 (Eng) \*DL/76NOV632

#### EXTERNAL OTITIS, MALIGNANT

MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS. Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) \*DL/76NOV307

### EXTRUSION

THE UPTAKE AND EXTRUSION OF MONOVALENT CATIONS BY ISOLATED HEART MITOCHONDRIA. Brierley GP *Mol Cell Biochem* 10: 41-63, 31 Jan 76 (Eng) \*DL/76NOV554

#### EXUDATIVE DIABETIC MACULOPATHY

CLINICO-PATHOLOGICAL STUDY OF AN ORGANIZED PLAQUE IN EXUDATIVE DIABETIC MACULOPATHY. Begg IS, Rootman J *Can J Ophthalmol* 11: 197-202, Jul 76 (Eng) \*DL/76NOV25

#### FACILITATED DIFFUSION

INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES. Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

#### FAMILIAL

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) \*DL/76NOV203

#### FAMILIAL PERIODIC PARALYSIS

A NEW STANDARDIZED AND EFFECTIVE METHOD OF INDUCING PARALYSIS WITHOUT ADMINISTRATION OF EXOGENOUS HORMONE IN PATIENTS WITH FAMILIAL PERIODIC PARALYSIS. Johnsen T *Acta Neurol Scand* 54: 167-72, Aug 76 (Eng) \*DL/76NOV292

#### FAMILY PLANNING

HEALTH RATIONALE FOR FAMILY PLANNING. PP. 117-55. Omran AR *In 0 Bloch LS, ed. Population change: a strategy for physicians*. Washington, Assoc of American Medical Colleges, 1975. HV 766 1618p 1974. (Eng) \*DL/76NOV115

#### FANCONI SYNDROME

HYPOPHOSPHATEMIC OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS. Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng) \*DL/76NOV225

#### FASTED

EFFECTS OF ACUTE HEAT STRESS ON TISSUE CARBOHYDRATE IN FASTED RATS. Harrison MH *Aviat Space Environ Med* 47: 165-7, Feb 76 (Eng) \*DL/76NOV636

#### FASTED-REFED

ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT. Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

#### FASTING

LACK OF CENTRAL AUTONOMIC REGULATION OF SUBSTRATE DURING EARLY

FASTING IN MAN. Brodows RG, Campbell RG, Al-Aziz AJ *Metabolism* 25: 803-7, JUL 76 (Eng) \*DL/76NOV176

[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX] Gourdoux L *C R Soc Biol (Paris)* 169: 941-5, 1975 (Fre) \*DL/76NOV453

EFFECT OF FASTING ON GLUCOSE RECYCLING IN RATS. Freminet A, Poyart C, Leclerc L, Gentil M *FEBS Lett* 61: 294-7, 15 Jan 76 (Eng) \*DL/76NOV487

RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID. Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

#### FASTING HYPOGLYCEMIA

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) \*DL/76NOV204

#### FAT

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) \*DL/76NOV138

COMPREHENSIVE EVALUATION OF FATTY ACIDS IN FOODS. V. UNHYDROGENATED FATS AND OILS. Brignoli CA, Kinsella JE, Weisbrot JL *J Am Diet Assoc* 68: 224-9, Mar 76 (Eng) \*DL/76NOV530

COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES. Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA *Jr Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

#### FAT CELL

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPOASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) \*DL/76NOV79

PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOSIS. Allen DO, Katocs AS Jr, Largin EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

#### FAT CELL METABOLISM

EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM. Hertelendy F, Dahm CH Jr, Mueller EJ *Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

## Diabetes Literature—Keyword Index

### FEEDING

#### FAT, EPIDIDYMAL

THE ISOLATION AND CULTURE OF CAPILLARY ENDOTHELIUM FROM EPIDIDYMAL FAT. Wagner RC, Matthews MA *Microvasc Res* 10: 286-97, Nov 75 (Eng) \*DL/76NOV551

#### FATTY

CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE. Conev K, Raikova M, Boneva M *Folia Med (Plovdiv)* 17: 3-8, 1975 (Eng) \*DL/76NOV494

#### FATTY ACID

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES. Stoffel W, Michaelis G *Hoppe Seyler's Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

COMPREHENSIVE EVALUATION OF FATTY ACIDS IN FOODS. V. UNHYDROGENATED FATS AND OILS. Brignoli CA, Kinsella JE, Weihrauch JL *J Am Diet Assoc* 68: 224-9, Mar 76 (Eng) \*DL/76NOV530

THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT. Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID. Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

#### FATTY ACID, DIETARY

EFFECT OF DIETARY FATTY ACIDS WITH TRANS-DOUBLE BONDS? Thiele OW *Hipopokrates* 46: 247-9, Jun 75 (Ger) \*DL/76NOV505

#### FATTY ACID, FREE

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-MATURITY. Kashyap ML, Sivasambu R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEAEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY. Kisselbach AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjos OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chat G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS. Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS. Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

LABILE AGGREGATION STIMULATING SUBSTANCE, FREE FATTY ACIDS, AND PLATELET AGGREGATION. Gerrard JM, White JG, Krivit W *J Lab Clin Med* 87: 73-82, Jan 76 (Eng) \*DL/76NOV660

#### FATTY ACID ISOMER

DUAL-LABELED TECHNIQUE FOR HUMAL LIPID METABOLISM STUDIES USING DEUTERATED FATTY ACID ISOMERS. Emken EA, Rohwedder WK, Dutton HJ *Lipids* 11: 135-42, Feb 76 (Eng) \*DL/76NOV548

#### FATTY ACID, LONG CHAIN

[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS] Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

#### FATTY ACID METABOLISM

RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS. Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) \*DL/76NOV616

#### FATTY ACID OXIDATION

IMPAIRMENT OF MITOCHONDRIAL FATTY ACID OXIDATION BY CHRONIC ETHANOL INGESTION. Anonymous *Nutr Rev* 34: 23-5, Jan 76 (Eng) \*DL/76NOV562

#### FATTY ACID, PLASMA

A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT. Rennie MJ, Winder WW, Hollingshead JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL. Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

#### FATTY ACID, PLASMA FREE

[EFFECT OF ANGIOTENSIN II ON THE PATTERN OF PLASMA FREE FATTY ACIDS IN 2 HYPERTENSION MODELS IN RABBITS] Michailov ML *Cor Vasa* 17: 285-91, 1975 (Ger) \*DL/76NOV462

#### FATTY ACID, SHORT-CHAIN

ABSORPTION OF SHORT CHAIN FATTY ACIDS FROM THE HUMAN JEJUNUM. Schmitt MG Jr, Soergel KH, Wood CM *Gastroenterology* 70: 211-5, Feb 76 (Eng) \*DL/76NOV493

#### FATTY ACID SYNTHESIS

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

FATTY ACID SYNTHESIS FROM 2-14C ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haefliger EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

#### FATTY ACID, UNSATURATED

[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)] Oravec D, Moravec R *Bratisl Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

#### FATTY LIVER

[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS] Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

#### FATTY STREAK

REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS. Strong JP, Eggen DA, Starry HC *Primates Med* 9: 300-26, 1976 (Eng) \*DL/76NOV674

#### FATTY STREAKING

FATTY STREAKING OF HUMAN ARTERIES. A PRELIMINARY STUDY. Velican D, Velican C *Rev Roum Med Internat* 13: 25-9, 1975 (Eng) \*DL/76NOV582

#### FED RAT

EFFECT OF COLD STRESS ON RAPESEED OIL FED RATS. Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID. Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

#### FEEDING

EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS. Tanabe S, Kameoka K *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV6

DOPAMINE EFFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING

## Diabetes Literature—Keyword Index

### FEEDING, CONTROL

AND LEVER-PRESSING FOR FOOD. Martin GE, Myers RD *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP. Prior RL, *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

### FEEDING, CONTROL

INTERACTIONS OF GLUCOSTATIC AND LIPOSTATIC MECHANISMS IN THE REGULATORY CONTROL OF FEEDING. PP. 89-101. Le Magnen J In *Novin D et al., ed. Hunger: basic mechanisms and clinical implications*. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) \*DL/76NOV400

### FEEDING, PARENTERAL

[FUNDAMENTALS OF PARENTERAL FEEDING IN INTERNAL DISEASES] Trubenstein G, Kikis D *Infusionstherapie* 2: 450-5, Dec 75 (Ger) \*DL/76NOV655

### FENFLURAMINE

PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESE DIABETIC PATIENTS. Kesson CM, Ireland JT *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

### FERROCYANIDE

[MODIFICATION OF THE FERROCYANIDE VERSION OF THE GLUCOSE OXIDASE METHOD FOR MEASURING GLUCOSE] Afanasyeva GA, Shcherbukhin VD *Prikl Biokhim Mikrobiol* 11: 460-2, May-Jun 75 (Rus) \*DL/76NOV671

### FETAL

HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS. Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadden IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

### FETAL LUNG

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

### FETUS

TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION. Randall GC, L'Ecuyer C *Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

### FETUS, HUMAN

GASTROINTESTINAL SOMATOSTATIN CELLS IN THE HUMAN FETUS. Dubois PM, Paulin C *Cell Tissue Res* 166: 179-84, 12 Feb 76 (Eng) \*DL/76NOV455

### FETUS, UNDERWEIGHT

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freyss E, Tissier J J *Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

### FIBRINOLYTIC ACTIVITY

LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES. Bogie W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

### FIBROBLAST

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

### FIBROBLAST, CULTURED

EFFECTS OF SUGARS ON THE PHYSIOLOGY OF CULTURED FIBROBLASTS. Johnson GS, Schwartz JP *Exp Cell Res* 97: 281-90, Feb 76 (Eng) \*DL/76NOV481

### FIBROBLAST GROWTH FACTOR

EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS. Gospodarowicz D, Weseman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

### FILTRATION

[GLOMERULAR FILTRATION RATE IN DIABETIC CHILDREN MEASURED BY ISOTOPE METHOD] Drexler M, Ortwein V *Orv Hetil* 117: 1878-83, 1 Aug 76 (Hun) DL/76NOV200

CAPILLARY FILTRATION COEFFICIENT IN SHORT AND LONG-TERM DIABETES. Nielsen SL, Poulsen HL *Biol Anat* 13: 78-9, 1975 (Eng) DL/76NOV354

### FILTRATION, GLOMERULAR

[POSSIBILITIES OF RADIOISOTOPE DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS] Ignatov A, Karasantev I, Minchev M *Urol Nefrol (Mosk)* 13-6, Sept-Oct 75 (Rus) DL/76NOV263

### FILTRATION PERMEABILITY

FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE. Palm T, Nielsen SL, Lassen NA, Sander EH *Biol Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

### FISH

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

ON THE MUSCULAR FUEL OF THE AIR SAC IN AN AIR BREATHING FISH. Thakur RN, Singh BR *Acta Histochem (Jena)* 54: 322-7, 1975 (Eng) \*DL/76NOV605

### FISH, FRESH WATER

EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV291

### FISTULA, SIGMOIDOVESICOCUTANEOUS

SIGMOIDOVESICOCUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON. Parisa F, Passaro E *Am J Surg* 132: 103-7, Jul 76 (Eng) DL/76NOV312

### FLEXOELECTRIC MODEL

FLEXOELECTRIC MODEL FOR ACTIVE TRANSPORT. PP. 111-25. Petrov AG *In: Vasileva-Popova JG, ed. Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV393

### FLOW

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinner ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

### FLOW, BLOOD

EFFECTS OF P-CHLOROPHOXYISOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjos OD, Miller NE, Riemsma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

### FLOW, CORONARY

RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM. Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

### FLUORESCENCE

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

### FLUORESCENT

LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES. Stoffel W, Michaelis G *Hoppe Seyler's Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

### FLUX

EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE. Hope-

## Diabetes Literature—Keyword Index

### GASTRIC

Gill HF, Kissebah AH, Clarke P, Vydellung N, Tulloch B, Fraser TR. *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

POSSIBLE INTERRELATIONSHIP BETWEEN METABOLITE FLUX AND APPETITE. PP. 115-25. Sullivan AC, Triscari J. In *0 Novin D et al., ed. Hunger: basic mechanisms and clinical implications*. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) \*DL/76NOV407

#### FOOD

DOPAMINE EFFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING AND LEVER-PRESSING FOR FOOD. Martin GE, Myers RD. *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

COMPREHENSIVE EVALUATION OF FATTY ACIDS IN FOODS. V. UNHYDROGENATED FATS AND OILS. Brignoli CA, Kinsella JE, Weihrauch JL. *J Am Diet Assoc* 68: 224-9, Mar 76 (Eng) \*DL/76NOV530

#### FOOD CONSUMPTION

DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE. Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ. *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

#### FOOD DEPRIVATION

EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITTED RATS TO AUTONOMIC AGENTS. Foy JM, Lucas PD. *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

#### FOOD INTAKE

CIRCADIAN RHYTHMS IN DISACCHARIDES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE. Saito M, Murakami E, Suda M. *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) \*DL/76NOV431

#### FOREARM, HUMAN

FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED AS AN OSMOTIC TRANSIENT TECHNIQUE. Palm T, Nielsen SL, Lassen NA, Sander EH. *Bibl Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

#### FORE-STOMACH MOTILITY

INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP. Weeks TE, Bueno L, Garcia-Villar R. *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

#### FREE

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennmalm A. *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

#### FREE AMINO ACID, PLASMA

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV. *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

#### FREE FATTY ACID

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMaturity. Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS. *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chan G, Schiff D J. *Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

LABILE AGGREGATION STIMULATING SUBSTANCE, FREE FATTY ACIDS, AND PLATELET AGGREGATION. Gerard JM, White JG, Krivit W. *J Lab Clin Med* 87: 73-82, Jan 76 (Eng) \*DL/76NOV660

#### FREE FATTY ACID EXTRACTION

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjøs OD, Miller NE, Riemsma RA, Oliver MF. *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

#### FREE FATTY ACID METABOLISM

EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS. Mjøs OD. *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

#### FREE FATTY ACID, PLASMA

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY. Kissebah AH, Alfarsi S, Adams PW, Seely M, Folkard J, Wynn V. *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

EFFECT OF ANGiotensin II ON THE PATTERN OF PLASMA FREE FATTY ACIDS IN 2 HYPERTENSION MODELS IN RABBITS. Michailov ML. *Cor Vasa* 17: 285-91, 1975 (Ger) \*DL/76NOV462

DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME. Birkenhäger JC, Timmermans HA, Lamberts SW. *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525

#### FREE GLUCOSE

EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE. Bruni A, Leon A, Boarato E. *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

#### FREEZE FRACTURE

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY. Carpenter JL, Perrelet A, Orci L. *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

#### FRONTAL PROMINENCE

GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE. Rosenblum AL, Frias JL. *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10

#### FRUCTOSE

TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION. Randall GC, L'Eucuy C. *C Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

#### FRUCTOSE 1,6-DIPHOSPHATE

[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA]. Neifakh SA, Puchkova LV. *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

#### FRUCTOSE 1,6, BISPHOSPHATE

THE CONTROL OF PYRUVATE KINASE OF *Escherichia coli*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE-1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwal BD. *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

#### FUNCTIONAL CAPACITY

[CATAMNESTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS]. Bock R, Wieczorek V, Dachsel R. *Z Aerzl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

#### FUNICULAR TISSUE

[OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO]. Brachet E C. *R Soc Biol (Paris)* 169: 1077-80, 1975 (Fre) \*DL/76NOV450

#### FUSION

EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS. Gospodarowicz D, Weseman J, Moran JS, Lindstrom J. *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

#### GAS CHROMATOGRAPHIC

GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL. *Anal Chem* 48: 1386-94, Aug 76 (Eng) DL/76NOV316

#### GASTRECTOMY, PARTIAL

[ORAL GLUCOSE TOLERANCE TEST WITH A MIXTURE OF OLIGOSACCHARIDES AFTER PARTIAL GASTRECTOMY (AUTHORS TRANSL)]. Wepler R, Rommel K. *Klin Wochenschr* 54: 633-5, 1 Jul 76 (Ger) DL/76NOV157

#### GASTRIC

THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION

## Diabetes Literature—Keyword Index

### GASTRIC ACID SECRETION

TION. Guth PH, Smith E *Gastroenterology* 71: 435-8, Sep 76 (Eng) DL/76NOV61

RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS. Page MM, Asmal AC, Edwards CR Q J Med 69: 505-20, Jul 76 (Eng) DL/76NOV226

EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99mTC PERTECHNETATE IN MICE. Khettry J, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METIAMIDE, AN H<sub>2</sub>-2 HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

### GASTRIC ACID SECRETION

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

### GASTRIC MUCOSA

[MORPHOLOGY OF ESOPHAGEAL AND GASTRIC MUCOSA IN DIABETICS] Włodarczyk D *Pol Tyg Lek* 31: 829-32, 17 May 76 (Pol) DL/76NOV210

### GASTRIC SECRETION

INFLUENCE OF HYPERGLYCEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS. Markiewicz K, Lukin M *Digestion* 14: 188-91, 1976 (Eng) DL/76NOV59

[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL] Sakasaki S, Umeyama K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

### GASTRIC VAGOTOMY

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

### GASTRIN

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

### GASTRIN, SERUM

[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL] Sakasaki S, Umeyama K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

### GASTROINTESTINAL HORMONE

GASTROINTESTINAL HORMONES. Sullivan SN *Can J Surg* 19: 295-310, Jul 76 (Eng) DL/76NOV26

THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION. Guth PH, Smith E *Gastroenterology* 71: 435-8, Sep 76 (Eng) DL/76NOV61

PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESE HYPERGLYCEMIC MICE. Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

### GASTROINTESTINAL SOMATOSTATIN

GASTROINTESTINAL SOMATOSTATIN CELLS IN THE HUMAN FETUS. Dubois PM, Paulin C *Cell Tissue Res* 166: 179-84, 12 Feb 76 (Eng) \*DL/76NOV455

### GENERAL PRACTITIONER

DIABETES MELLITUS. A REPORT FROM THE AUSTRALIAN GENERAL PRACTITIONER MORBIDITY AND PRESCRIBING SURVEY 1969-1974. Dunstone MW *Aust Fam Physician* 5: 479-80, May 76 (Eng) DL/76NOV347

### GENETIC FACTOR

LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES. Scherthaler G, Ludwig H, Mayr WR, Willvonseder R N *Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

### GENETIC HETEROGENEITY

[GENETIC HETEROGENEITY AND MEDICO-GENETIC COUNSELING IN DIABETES MELLITUS] Liberman IS *Klin Med (Mosk)* 53: 29-36, Oct 75 (Rus) DL/76NOV159

### GENETIC OBESITY

EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITTED RATS TO AUTONOMIC AGENTS. Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

### GENETICALLY OBESE RAT

EFFECT OF LOW CALORIE DIET ON THE H<sub>2</sub>PERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBESE RATS. Koletzky S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

### GENITAL

ON THE RELATION OF GENITAL TO URINARY TRACT INFECTIONS. DIAGNOSTIC PROBLEMS. PP. 193-9. Fritz H In O Danielsson D, et al., ed. *Genital infections and their complications*. Stockholm, Almqvist & Wiksell, 1975. WC 140 5988p 1974. (Eng) DL/76NOV117

### GENITAL HYPOPLASIA

GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE. Rosenblom AL, Fria JL *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10

### GESTATION

ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION. Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION. Randall GC, LeCuyer C *Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

### GESTATIONAL

PLACENTAL CHANGES IN GESTATIONAL DIABETES. AN ULTRASTRUCTURAL STUDY. Jones CJ, Fox H *Obstet Gynecol* 48: 274-80, Sep 76 (Eng) DL/76NOV197

GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY. Tyson JE, Hock RA *Am J Obstet Gynecol* 125: 1009-27, 1 AUG 76 (Eng) DL/76NOV308

### GLAND, ADRENAL

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP 335-45. Kuriyama K, Nakagawa K In *0 Huxtable R, Barbeau A, ed. Taurine*. New York, Raven Press, 1975 W3 IN923E 1975. (Eng) \*DL/76NOV639

### GLAND, MAMMARY

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

### GLAND, PAROTID

[STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF STENONS DUCT] Orlenco MA, Kolesnikov RN *Stomatologija (Mosk)* 54: 85-6, May-Jun 75 (Rus) \*DL/76NOV593

### GLAND, SUBMAXILLARY

CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT. Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

### GLAND, THYROID

[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)] Oravec D, Moravec R *Bratislav Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

### GLAUCOMA

[INCIDENCE OF DIABETES IN PRIMARY GLAUCOMA] Sindlerova E *Cesk Oftalmol* 32: 192-8, Jun 76 (Cze) DL/76NOV29

### GLIBENCLAMIDE

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

## Diabetes Literature—Keyword Index

### GLUCIDO-LIPID CYCLE

#### GLIBORNURIDE

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Lindbjerg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

#### GLOBULIN, SERUM

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warnez JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

#### GLOMERULAR BASEMENT MEMBRANE

PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES. Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) DL/76NOV141

#### GLOMERULAR FILTRATION

[POSSIBILITIES OF RADIOISOTOPE DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS] Ignatov A, Karastanov I, Minchev M *Urol Nefrol (Mosk)* 13-6, Sept-Oct 75 (Rus) DL/76NOV263

#### GLOMERULAR FILTRATION RATE

[GLOMERULAR FILTRATION RATE IN DIABETIC CHILDREN MEASURED BY ISOTOPE METHOD] Drexler M, Ortwein V *Orv Hetil* 117: 1878-83, 1 Aug 76 (Hung) DL/76NOV200

#### GLOMERULUS

EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULI. Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

#### GLUCAGON

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART. Clark CM Jr *Endocrinology* 99: 23-9, Jul 76 (Eng) DL/76NOV52

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

UNUSUAL SPECIFICITIES OF ANTIBODIES TO

[GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garraud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 261-3, May 76 (Eng) DL/76NOV77

EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN. Gerich JE, Lorenzi M, Bier DM, Tsakiank E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID. PP, 44-8. Sailer S *Inn Hauvast JGAJ*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY. Carpenter JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL] Sakasai K, Umezawa K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossain VV, Matusz ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99MTC PERTCHNETATE IN MICE. Khettry I, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV291

K&T TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO. Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

PROCEEDINGS: EFFECT OF GLUCAGON ON PAIN IN ACUTE PANCREATITIS. Waterworth TA, Bevan PG *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV325

GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE. Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLYL CYCLASE IN RAT TISSUES STIMULATED

BY DOPAMINE, NORADRENALINE AND GLUCAGON. Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) DL/76NOV380

#### GLUCAGON, BIG

THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON. O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

#### GLUCAGON DOSAGE

[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)] Andel M, Brodan V, Kuhn E *Cesk Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

#### GLUCAGON LIKE

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETO-RY SYSTEM. Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

#### GLUCAGON LIKE IMMUNOREACTIVITY, GUT

PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY. Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

#### GLUCAGON, PANCREATIC

STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA). O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

#### GLUCAGON, PLASMA

PLASMA GLUCAGON AFTER KIDNEY EXCISION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN Eviscerated DOGS. Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV174

#### GLUCAGON RESPONSE

NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS. Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

#### GLUCAGON SECRETION

SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY. Miyata M, Yamamoto T, Nakao K *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

#### GLUCIDO-LIPID CYCLE

[THE ANNUAL GLUCIDO-LIPID CYCLE IN A VARANOF OF SENEGAL] Cisse M, Demaille J C *R Soc Biol (Paris)* 169: 1084-9, 1975 (Fre) \*DL/76NOV451

## Diabetes Literature—Keyword Index

### GLUCOCORTICOID

#### GLUCOCORTICOID

muscle and liver protein metabolism in rats treated with glucocorticoids. Millward DJ, Nnanyelugo DO, Bates P, Heard CR *Proc Nutr Soc* 35: 47a, May 76 (Eng) \*DL/76NOV217

the physiology of the mammalian hypothalamo-adeno-hypophysial-adrenal glucocorticoid system - a new hypothesis. pp. 351-83. Yates FE, Maran JW, Ferent WAYS AND RATES. 0005005T *In: Aschoff J et al., ed. Chronobiological aspects of endocrinology*. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

#### GLUCONEOGENESIS

gluconeogenesis in isolated intact lamb liver cells. effects of glucagon and butyrate. Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

gluconeogenesis: a teaching pathway. criteria to establish a metabolic pathway. Gabrielli F *J Chem Educ* 53: 86-91, Feb 76 (Eng) \*DL/76NOV522

#### GLUCONEOGENESIS, HEPATIC

hepatic gluconeogenesis in foetal and suckling lambs. Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

#### GLUCONEOGENETIC ENZYME

effect of aeration on the activity of gluconeogenetic enzymes in saccharomyces cerevisiae growing under glucose limitation. Haaralisa S, Oura E *Arch Microbiol* 106: 271-3, 31 Dec 75 (Eng) \*DL/76NOV630

#### GLUCONEOGENIC

changes in plasma glucose and liver glycogen following the administration of gluconeogenic precursors to the starving fowl. Davison TF, Langslow DR *Comp Biochem Physiol [A]* 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

#### GLUCOSE

behavior of blood calcium after oral administration of glucose in subjects with defective intestinal transport of radiocalcium. Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 May 76 (Ita) DL/76NOV3

proceedings: effect of glucose and gastrointestinal hormones on the accumulation and efflux of cyclic AMP from isolated islets of Langerhans of lean and obese hyperglycaemic mice. Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

assessment of effect of starvation, glucose, fatty acids and hormones on alpha-decarboxylation of leucine in skeletal muscle of rat. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

[glucose and the reducing sugars of the human bile] Parin J, Salember Y, Gerard A, Samso G *Med Chir Dig suppl 1: 31-4*, 1975 (Fre) DL/76NOV162

carbohydrate and lipid metabolism during human labor: free fatty acids, glucose, insulin, and lactic acid metabolism during normal and oxytocin-induced labor for post-maturity. Kashyap ML, Sivasambo R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) \*DL/76NOV177

improved glucose control in non-hospitalized pregnant diabetic patients. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) \*DL/76NOV195

effect of polar lipids on cerebral content of free glucose in mice. Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

[effect of tolbutamide on plasmatic insulin and glucose in children treated with diphenylhydantoin (authors transl.)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *Arch Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

long-term effects of a high glucose concentration on cyclic nucleotide phosphodiesterase activity in mouse pancreatic islets maintained in tissue culture. Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

effects of drugs on glucose and tolbutamide-stimulated insulin release from isolated rat islets of Langerhans. El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

how does glucose enter brain cells pp. 126-43. Bachelard HS *In: Ingvar DH, Lassen NA, ed. Brain work: the coupling of function metabolism and blood flow in the brain*. Copenhagen, Munksgaard, 1975. W3 A136 1974b. (Eng) [53] \*DL/76NOV397

influence of membrane lipid fluidity on glucose and uridine facilitated diffusion in human erythrocytes. Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

effect of glucose and cyclic adenosine 3,5-monophosphate on the synthesis of succinate dehydrogenase and isocitrate lyase in escherichia coli. Takahashi Y *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng) \*DL/76NOV511

[effect of endogenous respiration of candida mycoderma on the operation of the cytochrome system and the oxidation of glucose, ethanol and acids of the krebs cycle] Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

human newborns differentiate differing concentrations of sucrose and glucose. Nowlis GH, Kessen W *Science* 191: 865-6, 27 Feb 76 (Eng) \*DL/76NOV587

observations on the effect of shortening the dry period on milk yield, body weight, and circulating glucose and ffa levels in dairy cows. Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

the effect of ethoxyquin on the intestinal transport of glucose and water in vitro. Skjaer JU *Acta Pharmacol Toxicol (Kbh)* 38: 174-6, Feb 76 (Eng) \*DL/76NOV606

effect of reduction of myocardial free fatty acid metabolism rela-

tive to that of glucose on the ischemic injury during experimental coronary artery occlusion in dogs. Mjøs OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

effect of aeration on the activity of gluconeogenetic enzymes in saccharomyces cerevisiae growing under glucose limitation. Haaralisa S, Oura E *Arch Microbiol* 106: 271-3, 31 Dec 75 (Eng) \*DL/76NOV630

evaluation of a reagent-strip method for glucose in whole blood, as compared with a hexokinase method. Stewart TC *Clin Chem* 22: 74-8, Jan 76 (Eng) \*DL/76NOV648

serotonin uptake and glycolytic activity of human platelets after prolonged incubation with glucose-poor plasma. Hardeman MR, Prins HK *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

metabolic studies in total parenteral nutrition with lipid in man. comparison with glucose. Jeejeehooy KN, Anderson GH, Kahnkoda AF, Greenberg GR, Sanderson I, Marlis EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

#### 14C-GLUCOSE

effect of heart work and insulin on the incorporation of [14C]glucose into hexose phosphates, uridine diphosphate glucose and glycogen in the normal and insulin-deficient perfused rat heart under working and non-working conditions. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

#### U 14C-GLUCOSE

nutrition of glossina morsitans: metabolism of U-14C glucose during pregnancy. Molo SK *J Insect Physiol* 22: 195-200, 1976 (Eng) \*DL/76NOV531

#### GLUCOSE ABSORPTION

stimulation of water and sodium secretion and inhibition of glucose absorption from the rat jejunum during intraarterial infusions of prostaglandins. Coupar IM, McCall I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

#### GLUCOSE ANALYSIS

[letter: glucose analysis in blood and serum with the BM-testmeter] Nuc I, Wulff AM, Bundgaard K *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

#### GLUCOSE ANOMER

caution on glucose anomers: measurements and metabolism. Rossini AA, Soeldner JS *Horm Metab Res* 7: 522-3, Nov 75 (Eng) \*DL/76NOV500

#### GLUCOSE ANOMERIC

insulin release is glucose anomeric specific in the human. Rossini AA, Soeldner JS *J Clin Invest* 57: 1083-8, Apr 76 (Eng) DL/76NOV102

#### GLUCOSE ASSIMILATION

glucose assimilation in neonates. pp. 165-81. Salle B, Chance GW, Ruitton-Ugliengo M, Stalberg E, Steiner DF, Kemmler W, Tager

## Diabetes Literature—Keyword Index

### GLUCOSE TOLERANCE

HS, Rubenstein AH, Lernmark A, Zuhlike H *Inn Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis, Green, 1975. WS 27.1 S989n 1972. (Eng) DL/76NOV131*

#### GLUCOSE, BLOOD

OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiyama F, Inada H, Kitabatake A, Hori M *Comput Biomed Res 9: 217-28, Jun 76 (Eng) DL/76NOV34*

BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION. Larsen LO *Gen Comp Endocrinol 29: May 76 (Eng) DL/76NOV64*

STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST. Sasaki A, Horiuchi N *J Chronic Dis 29: 129-40, Feb 76 (Eng) DL/76NOV91*

LETTER: CONTROL OF BLOOD GLUCOSE IN DIABETES. Anonymous *N Engl J Med 295: 509-12, 26 Aug 76 (Eng) DL/76NOV184*

SEERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syvalhti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kh) 38: 177-85, Mar 76 (Eng) DL/76NOV295*

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis 21: 563-8, Jul 76 (Eng) DL/76NOV306*

HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT. Rossini AA, Hare JW *Arch Surg 111: 945-9, Sep 76 (Eng) DL/76NOV339*

TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION. Randall GC, L'Ecuyer C *Biol Neonate 28: 74-82, 1976 (Eng) \*DL/76NOV445*

#### GLUCOSE CATABOLISM

[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX] Gourdoux L C R Soc Biol (Paris) 169: 941-5, 1975 (Fre) \*DL/76NOV453

#### GLUCOSE CONTROL

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol 48: 260-7, Sep 76 (Eng) DL/76NOV195*

#### GLUCOSE DETERMINATION

A SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF GLUCOSE IN BLOOD SERUM. Daines TL, Morse KW *J Chem Educ 53: 126-7, Feb 76 (Eng) \*DL/76NOV521*

[DESCRIPTION OF A METHOD FOR THE DETERMINATION OF GLUCOSE AND ALPHA GLUCOSIDASE] Flores-Carreon A, Ruiz-Herrera J *Rev Lat Am Microbiol 17: 225-6, Oct-Dec 75 (Spa) \*DL/76NOV581*

#### GLUCOSE INDUCED INSULIN RELEASE

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL. Sener A, Levy J, Malaisse WJ *Biochem J 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369*

#### GLUCOSE INSULIN POTASSIUM SOLUTION

[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCTION] Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern] 28: 199-204, May-Jun 76 (Rum) DL/76NOV231*

#### GLUCOSE INTOLERANCE

[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie 66: 337-47, Dec 75 (Ger) \*DL/76NOV476*

#### GLUCOSE INTOLERANT

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics 57: 722-8, May 76 (Eng) DL/76NOV205*

#### GLUCOSE, INTRAVENOUS

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Noteolvitz M, James S *Obstet Gynecol 48: 268-73, Sep 76 (Eng) DL/76NOV591*

#### GLUCOSE KINETICS

ALTERATIONS IN GLUCOSE KINETICS FOLLOWING THERMAL INJURY. Wilmore DW, Mason AD, Pruitt BA Jr *Surg Forum 26: 81-3, 1975 (Eng) \*DL/76NOV591*

#### GLUCOSE LOAD

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188*

#### GLUCOSE METABOLISM

EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM. Anonymous *Nutr Rev 38: 185-7, Jun 76 (Eng) [9] DL/76NOV191*

THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM. Betz AL, Gilroe DD, Drewes LR *Adv Exp Med Biol 69: 133-49, 1976 (Eng) [52] DL/76NOV299*

EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO. Kammula RG *Am J Vet Res 37: 935-8, Aug 76 (Eng) DL/76NOV318*

EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP. Prior RL *J Anim Sci 42: 160-7, Jan 76 (Eng) \*DL/76NOV507*

#### GLUCOSE METHOD

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem 22: 263-6, Feb 76 (Eng) \*DL/76NOV460*

#### GLUCOSE OXIDASE METHOD

[MODIFICATION OF THE FERROCYANIDE VERSION OF THE GLUCOSE OXIDASE METHOD FOR MEASURING GLUCOSE] Afanasyeva GA, Shcherbakina VD *Prikl Biokhim Mikrobiol 11: 460-2, May-Jun 75 (Rus) \*DL/76NOV671*

#### GLUCOSE OXIDATION

THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES. Olefsky JM *J Clin Invest 57: 842-51, Apr 76 (Eng) DL/76NOV104*

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn 22: 415-8, Oct 75 (Eng) \*DL/76NOV475*

#### GLUCOSE, PARENTERAL

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDAEAMIA. Van Biervliet JP, Senders RC, Lamers JM, Waddington SK *Lancet 1: 594, 13 Mar 76 (Eng) \*DL/76NOV545*

#### GLUCOSE, PLASMA

DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE. Bailey CJ, Atkins DW, Conner MJ, Manley CG, Matty AJ *Horm Res 6: 380-6, 1975 (Eng) DL/76NOV80*

CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL. Davison TF, Langslow DR *Comp Biochem Physiol [A] 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649*

#### GLUCOSE RECYCLING

EFFECT OF FASTING ON GLUCOSE RECYCLING IN RATS. Freminet A, Poyart C, Leclerc L, Gentil M *FEBS Lett 61: 294-7, 15 Jan 76 (Eng) \*DL/76NOV487*

#### GLUCOSE, SERUM

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem 22: 263-6, Feb 76 (Eng) \*DL/76NOV460*

#### GLUCOSE TOLERANCE

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyoon M, Dusitsin N, Poshyachinda V, Larsson-Cohn U *Contraception 14: 199-214, Aug 76 (Eng) DL/76NOV35*

## Diabetes Literature—Keyword Index

### GLUCOSE TOLERANCE, INTRAVENOUS

GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION. PP. 91-106. Kraft JR. In *0 Hunter OB Jr*, ed. *Radioassay of clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 S8892r 1974. (Eng) DL/76NOV124

[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS] Moskvichev AM, Shlimovich PB. Sov Med 110-4, Sept 75 (Rus) DL/76NOV248

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaya KI. Vrach Delo 76-80, Dec 75 (Rus) DL/76NOV270

EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG. Mahaffey MB, Anderson NV. Am J Vet Res 37: 947-52, Aug 76 (Eng) DL/76NOV319

### GLUCOSE TOLERANCE, INTRAVENOUS

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraas E, Gogler H. Arch Surg 111: 850-3, Aug 76 (Eng) DL/76NOV336

### GLUCOSE TOLERANCE TEST

STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST. Sasaki A, Horuchi N. J Chronic Dis 29: 129-40, Feb 76 (Eng) DL/76NOV91

[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME] Bogatyrev OP, Tishenina RS, Zenovko EI. Sov Med 115-8, Sept 75 (Rus) DL/76NOV249

### GLUCOSE TOLERANCE TEST, ORAL

[ORAL GLUCOSE TOLERANCE TEST WITH A MIXTURE OF OLIGOSACCHARIDES AFTER PARTIAL GASTRECTOMY (AUTHORS TRANSL)] Wepfer R, Rommel K. Klin Wochenschr 54: 633-5, 1 Jul 76 (Ger) DL/76NOV157

### GLUCOSE TRANSPORT

THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES. Olefsky JM. J Clin Invest 57: 842-51, Apr 76 (Eng) DL/76NOV104

THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM. Betz AL, Gilbow DD, Drewes LR. Adv Exp Med Biol 69: 133-49, 1976 (Eng) [52] DL/76NOV299

### GLUCOSE UTILIZATION

GLUCOSE UTILIZATION AND RECYCLING IN PONIES. Anwer MS, Chapman TE, Gronwall R. Am J Physiol 230: 138-42, Jan 76 (Eng) DL/76NOV623

EFFECTS OF AGE AND HYPERTENSION ON UTILIZATION OF GLUCOSE BY RAT AORTA. Daly MM. Am J Physiol 230: 30-3, Jan 76 (Eng) DL/76NOV624

### GLUCOSE UTILIZATION, CEREBRAL

INFLUENCE OF FUNCTIONAL ACTIVITY ON LOCAL CEREBRAL GLUCOSE UTILIZATION. PP. 385-8. Sokoloff L. In *0 Ingvar DH, Lassen NA*, ed. *Brain work: the coupling of function metabolism and blood flow in the brain*. Copenhagen, Munksgaard, 1975. W3 AL36 1974b. (Eng) DL/76NOV398

### GLUCOSE-6-PHOSPHATASE, HEPATIC

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC. J Biol Chem 251: 1035-41, 25 Feb 76 (Eng) DL/76NOV514

### GLUCOSIDASE, ALPHA

[DESCRIPTION OF A METHOD FOR THE DETERMINATION OF GLUCOSE AND ALPHA GLUCOSIDASE] Flores-Carreton A, Ruiz-Herrera J. Rev Lat Am Microbiol 17: 225-6, Oct-Dec 75 (Spa) DL/76NOV581

### GLUCOSTATIC

INTERACTIONS OF GLUCOSTATIC AND LIPOSTATIC MECHANISMS IN THE REGULATORY CONTROL OF FEEDING. PP. 89-101. Le Magnen J. In *0 Novin D* et al., ed. *Hunger: basic mechanisms and clinical implications*. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) DL/76NOV400

### GLUCOSE, URINARY

24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS. Levinsky RJ, Trompeter RS, Grant DB. Arch Dis Child 51: 463-6, Jun 76 (Eng) DL/76NOV331

### GLUTAMATE DEHYDROGENASE

[CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE] Khilmar M, Uong DS. Biokhimiia 40: 1275-81, Nov-Dec 75 (Rus) DL/76NOV441

### GLUTAMATE PYRUVATE TRANSAMINASE

ACTIVATION BY GTP OF LIVER ADENYLATE CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP. Kimura N, Nakane K, Nagata N. Biochem Biophys Res Commun 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

### GLUTARALDEHYDE

#### UNUSUAL SPECIFICITIES OF ANTIBODIES TO

[GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garaud JC, Moody AJ, Eloy R, Grenier JF. Horm Metab Res 8: 241-3, May 76 (Eng) DL/76NOV77

### GLUTRIL

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Mogensen EF, Worm J, Mikkelsen BO. Ugeskr Laeger 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO. Ugeskr Laeger 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

### GLYCEMIA

[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)] Andel M, Brodan V, Kuhn E. Cas Lek Cesk 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

### GLYCEMIC

[ACTIVITY OF BLOOD INSULIN IN DIABETES MELLITUS] Litovchenko IuS. Vrach Delo 105-8, Oct 75 (Rus) DL/76NOV268

### GLYCEMIC CURVE

[STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF STENOSIS DUCT] Orlenko MA, Kolesnikov RN. Stomatologija (Mosk) 54: 85-6, May-Jun 75 (Rus) DL/76NOV593

### GLYCERIDE GLYCEROL

EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO. Dominguez MC, Herrera E. Rev Esp Fisiol 31: 293-7, Dec 75 (Eng) DL/76NOV572

### GLYCOGEN

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER. Biochem J 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

### GLYCOGEN, LIVER

A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT. Rennie MJ, Winder WW, Hollosy JO. Biochem J 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL. Davison TF, Langslow DR. Comp Biochem Physiol A 52: 645-9, 1 Dec 75 (Eng) DL/76NOV649

### GLYCOGEN MEASUREMENT

[A STUDY OF THE O-TOLUIDINE METHOD FOR GLYCOGEN MEASUREMENT (AUTHORS TRANSL)] Guinovart JJ, Rosell-Perez M. Rev Esp Fisiol 31: 317-22, Dec 75 (Spa) DL/76NOV573

### GLYCOGEN METABOLISM

REGULATION OF GLYCOGEN METABOLISM IN HUMAN BLOOD PLATELETS. PP. 107-9. Schneider W. In *0 Ulitin ON*, ed. *Platelets*. Amsterdam, Excerpta Medica, 1975. W3 EX89 no.357 1974. (Eng) DL/76NOV410

[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OOCYTES

## Diabetes Literature—Keyword Index

### GROWTH HORMONE

Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) \*DL/76NOV90

### GROWTH HORMONE

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS] Palazzuoli V, Gragnoli G, Favilli R, Tangarelli I, Migliarese G *Boll Soc Ital Biol Spec* 52: 630-5, 15 May 76 (Ita) DL/76NOV2

EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN. Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebbuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syalahti E, Erkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

GROWTH HORMONE: ASPECTS OF THE REGULATION OF HUMAN GROWTH HORMONE SECRETION. PP. 489-97. Burger H *In* Franchimont P, ed. *Some aspects of hypothalamic regulation of endocrine functions*. Stuttgart, Schattauer, 1975. WL 312 5989s 1973. (Eng) [66] \*DL/76NOV396

ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS. PP. 243-50. Imura H, Kato Y *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMIC. PP. 232-42. Sawano S, Matsuna T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfine A *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV414

[THE EFFECTS OF ARGinine AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsair J, Poey J, Bakir F, Reggabi M, Benouniche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

AND EMBRYOS OF TELEOSTS] Iurovitskii IUG, Milman LS *Biochimia* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

### GLYCOGEN SYNTHESIS

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whittton PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

### GLYCOGEN SYNTHETASE

EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE. Hope-Gill HF, Kissebah AH, Clarke P, Vydelingum N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

### GLYCOGEN, TISSUE

TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION. Randall GC, L'Ecuyer C *Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

### GLYCOLIPID

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

### GLYCOLYSIS

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL. Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

MEASUREMENT OF LACTIC ACID IN NANOMOLECULAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaisse WJ *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

EFFECT OF SODIUM SELENITE ON THE RATE OF GLYCOLYSIS UNDER AN INTENSIVE MUSCULAR LOAD] PP. 94-5. Karaev MA, Gasanov GG *In* Gasanov GG, ed. *Selen v biologii*. Baku, Elm, 1974. QV 618 5464 1974. (Rus) \*DL/76NOV384

THE REGULATION OF GLYCOLYSIS IN ERYTHROCYTES. PP. 195-209. Rapoport SM, Rapoport TA, Heinrich R *In* Keleti T, ed. Mechanism of action and regulation of enzymes. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV418

RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM. Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

### GLYCOLYTIC ACTIVITY

SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA. Hardeman MR, Prins HK *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

### GLYCOLYTIC ENZYME

X-RAY STUDIES OF GLYCOLYTIC ENZYMES. Blake CC *Essays Biochem* 11: 37-79, 1975 (Eng) [67] \*DL/76NOV479

### GRAFT

CRITICAL REVIEW OF THE USE OF CAROTID BOVINE GRAFTS FOR HEMODIALYSIS. Zincke H *Eur Surg Res* 8: 189-95, 1976 (Eng) DL/76NOV53

RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILOFEMORAL BYPASS GRAFT. Shons AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

### GRANULE, CHROMAFFIN

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP. 335-45. Kuriyama K, Nakagawa K *In* Huxtable R, Barbeau A, ed. *Taurine*. New York, Raven Press, 1975. W3 IN923E 1975t. (Eng) \*DL/76NOV639

### GROWTH

EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS. Tanabe S, Kameoka K *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV606

GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT. Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV585

FACTORS CONTROLLING THE GROWTH OF 3T3 CELLS AND TRANSFORMED 3T3 CELLS. PP. 777-84. Holley RW *In* Reich E, et al., ed. *Proteases and biological control*. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) DL/76NOV128

A NEW MATHEMATICAL APPROACH OF HORMONAL REGULATORY MECHANISMS DURING GROWTH. PP. 3-11. Collot F *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) DL/76NOV385

GROWTH AND DEVELOPMENTAL HORMONES AS CHEMICAL MESSENGERS. PP. 261-78. Tata JR *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [2] \*DL/76NOV394

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

### GROWTH FACTOR

EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS. Gospodarowicz D, Wessman J, \*DL/76NOV577

## Diabetes Literature—Keyword Index

### GROWTH HORMONE DEFICIENCY

[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)] Durand D, Prelot M, Raoul Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483

ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT. Federighi G, Udeschini G, De Palo C, Sicolo N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM. Etzrodt H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seylers Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION. Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

GROWTH HORMONE IN CARDIAC HYPERTROPHY INDUCED BY NEPHROGENOUS HYPERTENSION. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578

THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER FRACTION IN RATS. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng) \*DL/76NOV579

GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN. Giudano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604

CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM. Friedman M, Byers SO *Metabolism* 25: 125-6, Jan 76 (Eng) \*DL/76NOV667

### GROWTH HORMONE DEFICIENCY

GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE. Rosenbloom AL, Frias JL *Birth Defects* 10: 239-42, 1974 (Eng) \*DL/76NOV10

### GROWTH HORMONE, PITUITARY

CONFERENCE ON THE STRUCTURE-FUNCTION RELATIONSHIPS OF PITUITARY GROWTH HORMONE: A REPORT. Kostyo JL, Wilhelm AF *Metabolism* 25: 105-24, Jan 76 (Eng) \*DL/76NOV666

### GROWTH HORMONE, PLASMA

INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

### GROWTH HORMONE RELEASE

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGININE AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) \*DL/76NOV100

### GROWTH HORMONE RELEASE INHIBITING HORMONE

CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RH). PP. 115-25. Besser GM *In0 Labrie F, et al., ed. Hypothalamus and endocrine functions. New York, Plenum Press, 1976. WI CU82M v.3 1976.* (Eng) \*DL/76NOV125

### GROWTH HORMONE RESPONSE

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzky C, Geck P, Pfeiffer B *In0 Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p 1974.* (Eng) \*DL/76NOV395

### GROWTH HORMONE SECRETION

[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT] Kozlowski W *Pol Arch Med Wewn* 56: 45-54, Jul 76 (Pol) \*DL/76NOV207

[SECRETION OF GROWTH HORMONE IN ACROMEGALY] Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

### GROWTH HORMONE SYNTHESIS

MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE. Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS. Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

### GROWTH PROMOTING

GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES. Tata JR *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] \*DL/76NOV42

### GUT GLUCAGON-LIKE IMMUNOREACTIVITY

PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY. Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) \*DL/76NOV69

### GYNECOLOGY

OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRSUTISM. McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564

### HALOBACTERIUM

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

### HALOFENATE

LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS. Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorge NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) \*DL/76NOV463

### HALOPERIDOL

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPIN LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzenski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) \*DL/76NOV222

### HALOTHANE ANESTHESIA

EFFECTS OF HALOTHANE ON LIPID METABOLISM IN HUMAN ADIPOSE TISSUE. PP. 842-5. Bennis J, Smith U *In0 Arias A, et al., ed. Recent progress in anaesthesiology and resuscitation. Amsterdam, Excerpta Medica, 1975. W3 EX89 no. 347 1974.* (Eng) \*DL/76NOV389

### HARTLEY GUINEA PIG

ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG; THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINATE THE ANTIGENIC DETERMINANTS OF OX INSULIN. Hollins PJ, Himsworth RL *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) \*DL/76NOV32

DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG. Hollins PJ, Smith GH, Himsworth RL *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) \*DL/76NOV33

### HEALTH

HEALTH RATIONALE FOR FAMILY PLANNING. PP. 117-55. Omran AR *In0 Bloch LS, ed. Population change: a strategy for physicians. Washington, Assoc of American Medical Colleges, 1975. HV 766 1618p 1974.* (Eng) \*DL/76NOV115

THE CARE OF DIABETES MELLITUS AT A COMMUNITY HEALTH CENTRE. Smithurst BA *Aust Fam Physician* 5: 545-9, May 76 (Eng) \*DL/76NOV349

### HEART

EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART. Clark CM Jr *Endocrinology* 99: 23-9, Jul 76 (Eng) \*DL/76NOV52

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warnet JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) \*DL/76NOV92

[EFFECT OF ANTI-ARRHYTHMIA AGENTS ON THE IMPULSE CONDUCTION TO THE HEART] Kushakovskii MS *Kardiologiya* 15: 137-45, Sep 75 (Rus) [100] \*DL/76NOV151

## Diabetes Literature—Keyword Index

### HEPATITIS, CHRONIC

(AUTHORS TRANSL) Angulo P, Fernandez J, Lasierra J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

### HEMOLYTIC DISEASE, RHESUS

OBSEVATIONS ON SEVERE RHESUS HAEMOLYTIC DISEASE. Matthews TG, Nolan G, O'Sullivan BJ *Jr Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

### HEPATECTOMY

[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS] Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Grudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

### HEPATIC

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN VIABLE YELLOW OBESIVE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

### HEPATIC CIRRHOSIS

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSES] Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

### HEPATIC GLUCONEOGENESIS

HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS. Savan PM, Jeacock MK, Shepherd DA *Froc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

### HEPATIC GLUCOSE-6-PHOSPHATASE

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) DL/76NOV514

### HEPATITIS

[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

### HEPATITIS, CHOLESTATIC

[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

### HEPATITIS, CHRONIC

[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS] Moskvichev AM, Shlimovich PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) DL/76NOV576

FACTORS MODIFYING ISCHEMIC ALTERATIONS OF VENTRICULAR FUNCTION AND METABOLISM IN THE INTACT WORKING SWINE HEART. Liedtke AJ *Acta Med Scand [Suppl]* 57-64, 1976 (Eng) DL/76NOV615

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) DL/76NOV628

PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES. Boland MJ, Gutfreund H *Biochem J* 151: 715-27, Dec 75 (Eng) DL/76NOV637

### HEART CELL

INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE. Ghanbari H, McCarl RL *J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

### HEART DISEASE, ISCHEMIC

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaya KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

### HEART FAILURE, CONGESTIVE

BIOCHEMICAL AND CLINICAL EFFECTS OF METOLAZONE IN CONGESTIVE HEART FAILURE. Levy BA, Palmer RF *Curr Ther Res* 18: 641-51, Nov 75 (Eng) DL/76NOV650

### HEART, ISCHEMIC

RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS. Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) DL/76NOV616

### HEART MITOCHONDRIA

FURTHER STUDIES ON THE EFFECT OF PHOSPHOENOLPYRUVATE ON RESPIRATION-DEPENDENT CALCIUM TRANSPORT BY RAT HEART MITOCHONDRIA. Chudapongse P *Biochim Biophys Acta* 423: 196-202, 16 Feb 76 (Eng) DL/76NOV437

### HEART MITOCHONDRIA, ISOLATED

THE UPTAKE AND EXTRUSION OF MONOVALENT CATIONS BY ISOLATED HEART MITOCHONDRIA. Brierley GP *Mol Cell Biochem* 10: 41-63, 31 Jan 76 (Eng) DL/76NOV554

### HEART MUSCLE

RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM. Tsokos JO, Bloom S *Biochim Biophys Acta* 423: 42-51, 15 Jan 76 (Eng) DL/76NOV436

### HEART, PERFUSED

ADENOSINE 3,5-CYCLOC MONOPHOSPHATE IN PERFUSED RAT HEARTS EXPOSED TO ISOPRENALE AND DOPAMINE. Oses JB, Oye I *Acta Physiol Scand* 96: 100-13, Jan 76 (Eng) DL/76NOV607

### HEART, PERFUSED RAT

CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER. Oses JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

### HEART WORK

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

### HEAT STRESS

EFFECTS OF ACUTE HEAT STRESS ON TISSUE CARBOHYDRATE IN FASTED RATS. Harrison MH *Aviat Space Environ Med* 47: 165-7, Feb 76 (Eng) DL/76NOV636

### HEMODIALYSIS

CRITICAL REVIEW OF THE USE OF CAROTID BOVINE GRAFTS FOR HEMODIALYSIS. Zincke H *Eur Surg Res* 8: 189-95, 1976 (Eng) DL/76NOV53

METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS. Avram MM, Lipner HI, Sadiqali R, lancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

NEW CLINICAL SYNDROMES UNDER REGULAR INTERMITTENT HEMODIALYSIS. Loew H, Samizadeh A, Heilmann E *Curr Top Pathol* 61: 239-76, 1976 (Eng) [280] DL/76NOV464

### HEMODIALYSIS, CHRONIC

A REASSESSMENT OF THE PROGNOSIS OF DIABETIC PATIENTS TREATED BY CHRONIC HEMODIALYSIS (CHD). Comty CM, Kjellson D, Shapiro FL *Trans Am Soc Artif Intern Organs* 22: 404-11, 1976 (Eng) DL/76NOV264

### HEMODIALYSIS, HOME

ANALYSIS AND OUTCOME OF 1063 PATIENTS TRAINED FOR HOME HEMODIALYSIS. Roberts JL *Kidney Int* 9: 363-74, Apr 76 (Eng) DL/76NOV153

### HEMOGLOBINURIA

[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HEMOGLOBINURIA]

## Diabetes Literature—Keyword Index

### HEPATOCYTE

#### HEPATOCYTE

KINETIC STUDIES ON THE METABOLISM OF ETHYLMORPHINE BY ISOLATED HEPATOCYTES FROM ADULT RATS. Erickson RR, Holtzman JL *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

#### HEPATOMA CELL, H35

SELECTIVE CONTROL OF THE DEGRADATION OF NORMAL AND ABERRANT PROTEINS IN REUBER H35 HEPATOMA CELLS. Knowles SE, Ballard FJ *Biochem J* 156: 609-17, 15 Jun 76 (Eng) DL/76NOV372

#### HEREDITARY DIABETIC MOUSE

EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE. Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

#### HEXOKINASE

IDENTIFICATION OF THE INHIBITION TYPE OF HEXOKINASE AND PYRUVATE KINASE ACTIVITY BY CA2+. Genin MS, Andreev VS *Biokhimia* 40: 885-9, Jul-Aug 75 (Rus) \*DL/76NOV644

#### HEXOKINASE METHOD

EVALUATION OF A REAGENT-STRIP METHOD FOR GLUCOSE IN WHOLE BLOOD, AS COMPARED WITH A HEXOKINASE METHOD. Stewart TC *Clin Chem* 22: 74-8, Jan 76 (Eng) \*DL/76NOV648

#### HEXOSE

EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV509

PROCEEDINGS: EFFECT OF ACTIVELY TRANSPORTED HEXOSES ON AFFERENT NERVE DISCHARGE FROM RAT SMALL INTESTINE IN VIVO. Sanford PA *J Physiol (Lond)* 254: 75P-76P, Jan 76 (Eng) \*DL/76NOV539

ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT. Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

#### HEXOSE PHOSPHATE

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

#### HINDLIMB

HYDROGEN ION CONCENTRATION AND OXYGEN UPTAKE IN AN ISOLATED CANINE HINDLIMB. Harken AH *J Appl Physiol* 40: 1-5, Jan 76 (Eng) \*DL/76NOV508

#### HIRSUTISM

OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRSUTISM. McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564

#### HISTAMINE ANTAGONIST

INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METIAMIDE, AN H-2 HISTAMINE ANTAGONIST. Bajaj SC, Hirshowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

#### HISTOCHEMICAL

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

#### HISTOCOMPATIBILITY ANTIGEN

HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS. Miroze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbosa J, Noreen H, Emme M, Goetz F, Simmons R, de Leiva A, Najarjan Y, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

#### HISTOLOGY

[INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APPROPOS OF 2 CASES)]. Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

#### HISTOPATHOLOGICAL

THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS. Shalash BA, El-Hoshy M, Saad A, El-Fiki L *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

#### HLA

SEE HUMAN LEUCOCYTE ANTIGEN

#### HOLOBIUM

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

#### HOMEOSTASIS

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

#### HORMONAL

CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS

IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER. Osnes JB, Christoffersen T, Mørland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

A NEW MATHEMATICAL APPROACH OF HORMONAL REGULATORY MECHANISMS DURING GROWTH. PP. 3-11. Collot F *In 0 Vasileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV385*

#### HORMONAL REGULATION

DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHEZISING POLYSOMES IN RAT LIVER. Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION. PP. 63-95 Vassileva-Popova JG, Yanev TK *In 0 Vasileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399*

#### HORMONAL RESPONSE

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

#### HORMONE

GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT. Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

MEMBRANE RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS. Kahn CR *J Cell Biol* 70: 261-86, Aug 76 (Eng) DL/76NOV89

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

A NEW STANDARDIZED AND EFFECTIVE METHOD OF INDUCING PARALYSIS WITHOUT ADMINISTRATION OF EXOGENOUS HORMONE IN PATIENTS WITH FAMILIAL PERIODIC PARALYSIS. Johnsen T *Acta Neurol Scand* 54: 167-72, Aug 76 (Eng) DL/76NOV292

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETOORY SYSTEM. Tager HS, Markessi J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION. PP. 43-52. Vassileva-Popova JG, Alexandrov A, Kotarov M *In 0 Vasileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV387*

PULSATILE VARIATIONS IN HORMONE LEVELS. PP. 107-31. Bogumil RJ *In 0 Ferin M et al., ed. Biorhythms and human reproduction. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [63] \*DL/76NOV408*

## Diabetes Literature—Keyword Index

### HORMONE, GROWTH

**ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES. PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N *In0 Hatotani N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411**

**HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE. Kawachi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430**

**THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO. Sundberg DK, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565**

**HORMONE ACTION**

**PROTEIN PHOSPHORYLATION AND HORMONE ACTION. Cohen P, Antoniw JF, Nimmo HG, Yeaman SJ *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41**

**[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION] Iudaev NA, Afanogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrmen Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601**

**HORMONE, ADRENOCORTICOTROPIC**

**EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469**

**HORMONE, DEVELOPMENTAL**

**GROWTH AND DEVELOPMENTAL HORMONES AS CHEMICAL MESSENGERS. PP. 261-78. Tata JR *In0 Vassilieva-Popova JG*, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [2] \*DL/76NOV394**

**HORMONE, ENTERIC**

**ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE. Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73**

**HORMONE, GASTROINTESTINAL**

**GASTROINTESTINAL HORMONES. Sullivan SN *Can J Surg* 19: 295-310, Jul 76 (Eng) DL/76NOV26**

**THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION. Guth PH, Smith E *Gastroenterology* 71: 435-8, Sep 76 (Eng) DL/76NOV61**

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESE HYPERGLYCAEMIC MICE. Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133**

**HORMONE, GROWTH**

**GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE. Rosenbloom AL, Frias JL *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10**

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100**

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN. Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105**

**[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Almonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188**

**[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT] Kozlowski W *Pol Arch Med Wewi* 56: 45-54, Jul 76 (Pol) DL/76NOV207**

**[SECRETION OF GROWTH HORMONE IN ACROMEGALY] Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228**

**GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289**

**GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290**

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syvalhti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295**

**GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzky C, Geck P, Pfeiffer B *In0 Hatotani N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395**

**GROWTH HORMONE: ASPECTS OF THE REGULATION OF HUMAN GROWTH HORMONE SECRETION. PP. 489-97. Burger H *In0 Franchimont P*, ed. *Some aspects of hypothalamic regulation of endocrine functions*. Stuttgart, Schattauer, 1975. WL 312 5989s 1973. (Eng) [66] \*DL/76NOV396**

**ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS. PP. 243-50. Imura H, Kato Y *In0 Hatotani N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412**

**STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMI. PP. 232-42. Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfien A *In0 Hatotani N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV414**

**[THE EFFECTS OF ARGinine AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsair J, Poey J, Bakiri F, Reggabi M, Benouiche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446**

**CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468**

**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE. Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471**

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS. Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472**

**BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474**

**[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)] Durand D, Prelot M, Raoul Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483**

**INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferdinand L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) DL/76NOV491**

**ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT. Federighi G, Udeschini G, De Palo C, Siculo N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) DL/76NOV499**

**IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SECRETION. Etzrodi H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seyler's Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503**

**STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION. Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524**

**LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544**

**GROWTH HORMONE IN CARDIAC HYPERTROPHY INDUCED BY NEPHROGENOUS HYPERTENSION. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578**

**THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER FRACTION IN RATS. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng) \*DL/76NOV579**

**PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585**

**GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN. Giiodano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kbh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604**

## Diabetes Literature—Keyword Index

### HORMONE, GROWTH HORMONE RELEASE INHIBITING

CONFERENCE ON THE STRUCTURE-FUNCTION RELATIONSHIPS OF PITUITARY GROWTH HORMONE: A REPORT. Kostyo JL, Wilhelm AF *Metabolism* 25: 105-24, Jan 76 (Eng) \*DL/76NOV666

CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM. Friedman M, Byers SO *Metabolism* 25: 125-6, Jan 76 (Eng) \*DL/76NOV667

### HORMONE, GROWTH HORMONE RELEASE INHIBITING

CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RH). PP. 115-25. Besser GM *In* Labrie F, et al., ed. *Hypothalamus and endocrine functions. New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng)* \*DL/76NOV125

### HORMONE, HYPOTHALAMIC

IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL. PP. 433-50. Pelletier G *In* Labrie F, et al., ed. *Hypothalamus and endocrine functions. New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng)* [23] \*DL/76NOV126

### HORMONE, PARATHYROID

DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYTIC ACTION OF PARATHYROID HORMONE. Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH *Horm Metab Res* 8: 190-5, May 76 (Eng) \*DL/76NOV71

SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Deftois LJ, Lorenzi M, Bohanon N, Tsakalakos E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 203-7, Jul 76 (Eng) \*DL/76NOV96

ON THE LIPOLYTIC ACTION OF PARATHYROID HORMONE IN MAN. Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION. Beck N, Webster SK *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

### HORMONE, PEPTIDE

GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES. Tata JR *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] \*DL/76NOV42

### HORMONE, POLYPEPTIDE

MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES. Acher R *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] \*DL/76NOV43

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlik H *In* Reich E, et al., ed. *Proteases and biological control. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. WI CU162N v.2 1975. (Eng)* [104] \*DL/76NOV129

THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES). Strand FL *Bioscience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

### HORMONE SECRETION

EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN. Gerich JE, Lorenzi M, Bier DM, Tsakalakos E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) \*DL/76NOV105

ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION. Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

### HORMONE, SOMATOTROPIC

[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT] Rylova AK *Kardiologiya* 15: 100-3, Sep 75 (Rus) \*DL/76NOV150

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOLIC DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzański T, Pieschel D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) \*DL/76NOV222

### HORMONE, THYROID

ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM. Yu S, Friedman Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

REGULATION OF DEGRADATION OF THYROTROPIN-RELEASING HORMONE BY THYROID HORMONES. Bauer K *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

### HORMONE, THYROTROPIN-RELEASING

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) \*DL/76NOV100

REGULATION OF DEGRADATION OF THYROTROPIN-RELEASING HORMONE BY THYROID HORMONES. Bauer K *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

### HORMONE, THYROTROPIN-RELEASING

CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE. Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

### HUMAN LEUCOCYTE ANTIGEN

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbossa J, Noreen H, Emme L, Goetz F, Simmons DR, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) \*DL/76NOV257

### HYDROCORTISONE

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

### HYDROGEN ION

HYDROGEN ION CONCENTRATION AND OXYGEN UPTAKE IN AN ISOLATED CANINE HINDLIMB. Harken AH *J Appl Physiol* 40: 1-5, Jan 76 (Eng) \*DL/76NOV508

STOICHIOMETRY OF H& EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA2& BY RAT LIVER MITOCHONDRIA. Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

### HYDROLYSIS, ADENOSINE TRIPHOSPHATE

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

### HYDROLYTIC MECHANISM

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *In* Gards G, Szasz I, ed. *Biomembranes* Structure and function. Amsterdam, North-Holland, 1975. W3 FE22 9th 1974 v.35. (Eng) \*DL/76NOV419

### 4-HYDROXYBENZOIC ACID HYDRAZIDE

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng) \*DL/76NOV460

### 5-HYDROXYTRYPTOPHAN

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzky C, Geck P, Pfeiffer B *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395

### HYPERCHOLESTEROLEMIA

[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT] Aumailley M, Razaka G, Larive J, Bricaud H *C R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) \*DL/76NOV449

## Diabetes Literature—Keyword Index

### HYPERCORTICISM

[FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM] Starkova NT *Sov Med 104-10, Sept 75 (Rus)* DL/76NOV247

### HYPERGLYCEMIA

[INFLUENCE OF HYPERGLYCEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS.] Markiewicz K, Lukin M *Digestion 14: 188-91, 1976 (Eng)* DL/76NOV59

### HYPERGLYCEMIA, INDUCED

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freys E, Tissier J J *Gynecol Obstet Biol Reprod (Paris) 4: 235-43, Mar 75 (Fre)* DL/76NOV114

### HYPERGLYCEMIC

BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN. Kiehm TG, Anderson JW, Ward K *Am J Clin Nutr 29: 895-9, Aug 76 (Eng)* DL/76NOV304

### HYPERINSULINISM

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics 57: 702-11, May 76 (Eng)* DL/76NOV204

### HYPERINSULINISM, ORGANIC

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat 12: 309-23, Sep-Dec 75 (Eng)* DL/76NOV287

### HYPERKETONEMIA

EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO. Kammula RG *Am J Vet Res 37: 935-8, Aug 76 (Eng)* DL/76NOV318

### HYPERLIPIDEMIA

[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)] Oravec D, Moravec R *Bratisl Lek Listy 65: 84-94, Jan 76 (Cze)* \*DL/76NOV448

### HYPERLIPIDEMIA

EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBES RATS. Koletsy S, Puterman DI *Proc Soc Exp Biol Med 151: 368-71, Feb 76 (Eng)* \*DL/76NOV569

[SCHNYDERS CORNEAL DYSTROPHY AND HYPERLIPIDEMIA (AUTHORS TRANSL)] Kaden R, Feurle G *Albrecht von Graefes Arch Klin Ophthalmol 198: 129-38, 4 Feb 76 (Ger)* \*DL/76NOV625

### HYPEROSMOLAR COMA

[HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION.] Machado MC, Monteiro da Cunha JE, Marigardo NF, Bacchella T, Goncalves L, Raia AA *Int Surg 61: 368-9, Jun-Jul 76 (Eng)* DL/76NOV81

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA] Berces G, Garas Z *Orv Hetil 117: 1753-6, 18 Jul (Hung)* DL/76NOV199

[HYPEROSMOLAR COMA IN DIABETES MELLITUS] Saliieva RZ *Zdravookhr Kurg 47-9, May-Jun 76 (Rus)* DL/76NOV281

### HYPEROSMOLARITY

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology 98: 84-90, Jan 76 (Eng)* \*DL/76NOV469

### HYPERPAPATHYROIDISM

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPAPATHYROIDISM. Kalkhoff RK, Gossman VV, Matute ML, Wilson SD *Metabolism 25: 769-75, JUL 76 (Eng)* DL/76NOV175

### HYPERPERMEABLE

RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM. Tsokos JO, Bloom S *Biochim Biophys Acta 423: 42-51, 15 Jan 76 (Eng)* \*DL/76NOV436

### HYPERPLASTIC OBESITY

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L *Scand J Rehabil Med 1-38, 1976 (Eng)* DL/76NOV243

### HYPERTENSION

EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBES RATS. Koletsy S, Puterman DI *Proc Soc Exp Biol Med 151: 368-71, Feb 76 (Eng)* \*DL/76NOV569

EFFECTS OF AGE AND HYPERTENSION ON UTILIZATION OF GLUCOSE BY RAT AORTA. Daly MM *Am J Physiol 230: 30-3, Jan 76 (Eng)* \*DL/76NOV624

### HYPERTENSION, ESSENTIAL

CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION. Lowder SC, Hamet P, Liddle GW *Circ Res 38: 105-8, Feb 76 (Eng)* \*DL/76NOV646

### HYPERTENSION MODEL

[EFFECT OF ANGIOTENSIN II ON THE PATTERN OF PLASMA FREE FATTY ACIDS IN 2 HYPERTENSION MODELS IN RABBITS] Michailov ML *Cor Vasa 17: 285-91, 1975 (Ger)* \*DL/76NOV462

### HYPERTENSION, NEPHROGENOUS

GROWTH HORMONE IN CARDIAC HYPERTROPHY INDUCED BY NEPHROGENOUS

### HYPOLYCEMIA, INDUCED

HYPERTENSION. Powis RL *Recent Adv Stud Cardiac Struct Metab 8: 413-25, 1975 (Eng)* \*DL/76NOV578

### HYPERTENSIVE

SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN. Poulsen HL *Bibl Anat 13: 74-5, 1975 (Eng)* DL/76NOV353

### HYPERTRIGLYCERIDEMIA, ENDOGENOUS

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY. Kissebah AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynne V *Atherosclerosis 24: 199-218, Jul-Aug 76 (Eng)* DL/76NOV383

### HYPURICEMIA

ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPURICEMIA IN THE RAT. Spencer HW, Yarger WE, Robinson RR *Kidney Int 9: 489-500, Jun 76 (Eng)* DL/76NOV154

### HYPOLYCEMIA

GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE. Rosenbloom AL, Friauf JL *Birth Defects 10: 239-42, 1974 (Eng)* DL/76NOV10

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M *J Clin Endocrinol Metab 43: 173-7, Jul 76 (Eng)* DL/76NOV94

SPINDEL-CELL TUMOURS AND HYPOGLYCEMIA. Millard PR, Jerrome DW, Millward-Sadler GH *J Clin Pathol 29: 520-9, Jun 76 (Eng)* DL/76NOV108

[HYPOGLYCEMIA IN NEONATES FOLLOWING EXCHANGE TRANSFUSION (AUTHORS TRANSL)] Herwe S *Monatsschr Kinderheilkd 124: 548-50, Jul 76 (Eng)* DL/76NOV178

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics 57: 702-11, May 76 (Eng)* DL/76NOV204

CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION. Lowder SC, Hamet P, Liddle GW *Circ Res 38: 105-8, Feb 76 (Eng)* \*DL/76NOV646

### HYPOLYCEMIA, CHRONIC

DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCEMIA. Hutton RA, Macnab AJ, Rivers RP *Arch Dis Child 51: 49-55, Jan 76 (Eng)* DL/76NOV329

### HYPOLYCEMIA, INDUCED

[DRUGS INDUCED HYPOGLYCEMIA] Dry J, Pradalier A *Sem Hop Ther 52: 231-4, Apr 76 (Fre)* DL/76NOV245

## Diabetes Literature—Keyword Index

### HYPOGLYCEMIA, INSULIN

#### HYPOGLYCEMIA, INSULIN

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micosi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Sensi S, Capani F *J Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

#### HYPOGLYCEMIA, NEONATAL

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

#### HYPOGLYCEMIC

[COMBINATION OF ORAL HYPOGLYCEMIC AGENTS] Decoula M *Lille Med* 21 spec no: 263-5, 1976 (Fre) DL/76NOV170

#### HYPOGLYCEMIC ACTION

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhan-Temirova TS, Bannyi IP, Petunin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) DL/76NOV57

#### HYPOGLYCEMIC ACTIVITY

[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojciechowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) DL/76NOV298

#### HYPOGLYCEMIC SULFAMIDE

[HYPOGLYCEMIC SULFAMIDES] Martin-Linquette A *Lille Med* 21: 369-73, Apr 76 (Fre) DL/76NOV169

#### HYPOGLYCIN

SELECTIVE INHIBITION OF ACYL-COA DEHYDROGENASES BY A METABOLITE OF HYPOGLYCIN. Kean EA *Biochim Biophys Acta* 422: 8-14, 23 Jan 76 (Eng) \*DL/76NOV432

#### HYPOPHOSPHATEMIC OSTEOMALACIA

HYPOPHOSPHATEMIC OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS. Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng) DL/76NOV225

#### HYPOPHYSECTOMIZE

BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION. Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

#### HYPOPITUITARISM

SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM. Vesely DL, Castro A, Levey GS *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

#### HYPOTHALAMI

STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMI. PP. 232-42. Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfine A *Inn Hatotani N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV414

#### HYPOTHALAMIC

PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

#### HYPOTHALAMIC HORMONE

IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL. PP. 433-50. Pelletier G *Inn Labrie F*, et al., ed. *Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. WL CU82M v.3 1976. (Eng) [23] DL/76NOV126

#### HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONE

ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES. PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N *Inn Hatotani N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411

#### HYPOTHALAMIC PITUITARY AXIS

TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS. PP. 371-95. Weitzman ED, Hellman L *Inn Ferin M*, et al., ed. *Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [56] \*DL/76NOV415

#### HYPOTHALAMO

THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSIAL-ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS. PP. 351-83. Yates FE, Maran JW, Ferent WAYS AND RATES. 0005005T *Inn Aschoff J*, et al., ed. *Chronobiological aspects of endocrinology*. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

#### HYPOTHALAMUS

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Al-

pert LC, Brawer JR, Patel YC, Reichlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

#### HYPOTHERMIA

SURVIVAL OF DOGS SUBJECTED TO PROFOUND HYPOTHERMIA WITH CIRCULATORY SUPPORT. Zarina CK, Moossa AR, Skinner DB *Arch Surg* 111: 186-9, Feb 76 (Eng) \*DL/76NOV631

#### HYPOTHYROIDISM, PRIMARY

[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

#### HYPOXIA

CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA. Kirshner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) \*DL/76NOV633

#### ICE HOCKEY

TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE. Green H, Bishop P, Houston M, McKillop R, Norman R, Stothart P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

#### IDIOPATHIC THROMBOCYTOPENIC PURPURA

IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 313-323, Jul 76 (Eng) DL/76NOV192

#### ILEUM

SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM. Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

THE EFFECTS OF REMOVAL OF SODIUM IONS FROM THE MUCOSAL SOLUTION ON SUGAR ABSORPTION BY RABBIT ILEUM. Naftalin RJ, Holman GD *Biochim Biophys Acta* 419: 385-90, 21 Jan 76 (Eng) \*DL/76NOV429

#### IMAGE ENHANCEMENT

[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT] Biliotti G, Stefanini P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

#### IMMOBILIZATION

[CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMMOBILIZATION] Platonova RD, Baskakova GM, Chepurnov SA *Biol Nauki* 37-40, 1975 (Rus) \*DL/76NOV443

#### IMMOBILIZATION STRESS

EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS. Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

## Diabetes Literature—Keyword Index

### INFANT, NEWBORN

#### IMMUNE RESPONSE

DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG. Hollins PJ, Smith GH, Himsworth RL. *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) DL/76NOV33

#### IMMUNOASSAY, ENZYME COUPLED

ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT. Kitagawa T, Aikawa T. *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) DL/76NOV86

#### IMMUNOGLOBULIN G

SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN. Poulsen HL. *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV33

#### IMMUNOHISTOCHEMICAL LOCALIZATION

IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL. PP. 433-50. Pelletier G. In *Labrie F, et al., ed. Hypothalamus and endocrine functions. New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) [23]* DL/76NOV126

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Albert LC, Bawer JR, Patel YC, Reichlin S. *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

#### IMMUNOLOGICAL

IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM. Etzrodi H, Schleyer M, Voigt KH, Pfeiffer EF. *Hoppe Seyler's Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

#### IMMUNOLOGICAL DISORDER

IMMUNOLOGICAL DISORDERS IN DYSGAMMAGLOBULINEMIA TYPE VII IN A DIABETIC PATIENT. Rogala E, Felus E, Wiegli A. *Pol Tyg Lek* 31: 793-5, 10 May 76 (Pol) DL/76NOV209

#### IMMUNOREACTIVE INSULIN

CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT. Oganov RG, Aleksandrova AA, Vinogradova NV, Korochkin IM. *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES. Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevraeva OG. *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE. Livergant JuE, Teslenko VG, Lebedev SV, Krupchitskaya KI. *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE

COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN. *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syalalati E, Erkkola R, Punnonen R, Rauramo L. *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

#### IMPULSE CONDUCTION

EFFECT OF ANTI-ARRHYTHMIA AGENTS ON THE IMPULSE CONDUCTION TO THE HEART. Kushakovskii MS. *Kardiologiya* 15: 137-45, Sep 75 (Rus) [100] DL/76NOV151

#### IN SITU

REGULATION OF ENZYMES IN SITU. PP. 211-21. Sols A. In *Keleti T, ed. Mechanism of action and regulation of enzymes. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV409*

#### IN UTERO

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV. *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

#### IN VITRO

PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO. Jain K, Logothetopoulos J. *J Biochem Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Girou B, Leyh T, Accary JP, Roze C. *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO. Packard GC, Randall JG. *Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO. Berg T, Iversen JG. *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

IN VITRO METABOLISM OF RED BLOOD CELLS FROM NEWBORN AND ADULT GOATS. Agar NS, Harley JD. *Biol Neonate* 28: 113-7, 1976 (Eng) \*DL/76NOV444

OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO. Brache E C. *R Soc Biol (Paris)* 169: 1077-80, 1975 (Fre) \*DL/76NOV450

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D. *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV534

THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO. Sundberg DK, Fawcett CP, McCann SM. *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO. Dominguez MC, Herrera E. *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

THE EFFECT OF ETHOXYQUIN ON THE INTESTINAL TRANSPORT OF GLUCOSE AND WATER IN VITRO. Skaare JU. *Acta Pharmacol Toxicol (Kbh)* 38: 174-6, Feb 76 (Eng) \*DL/76NOV606

FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haefner EW, Privett OS. *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

#### IN VIVO

EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO. Kammula RG. *Am J Vet Res* 37: 935-8, Aug 76 (Eng) DL/76NOV318

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D. *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

PROCEEDINGS: EFFECT OF ACTIVELY TRANSPORTED HEXOSSES ON AFFERENT NERVE DISCHARGE FROM RAT SMALL INTESTINE IN VIVO. Sanford PA. *J Physiol (Lond)* 254: 75P-76P, Jan 76 (Eng) \*DL/76NOV539

IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL. Sarma JS, Fischer R, Ikeda S, Bing RJ. *Proc Soc Exp Biol Med* 151: 303-6, Feb 76 (Eng) \*DL/76NOV568

EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ. *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

#### INCUBATION

SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA. Hardeman MR, Prins H. *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

#### INFANCY

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L. *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204

#### INFANT

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM. *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

SEVERE SALT POISONING IN AN INFANT. Saunders N, Balf JW, Laski B. *J Pediatr* 88: 258-61, Feb 76 (Eng) \*DL/76NOV534

#### INFANT, NEWBORN

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES:

## Diabetes Literature—Keyword Index

### INFARCTION, MYOCARDIAL

**STUDY ON A NEWBORN INFANT** Berland H, Moessner F, Willard D, Freyss E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

### INFARCTION, MYOCARDIAL

**[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT]** Rylova AK *Kardiologija* 15: 100-3, Sep 75 (Rus) DL/76NOV150

**[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT]** Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologija* 15: 91-100, Sep 75 (Rus) DL/76NOV152

**[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT]** Kozlowski W *Pol Arch Med Wewn* 56: 45-54, Jul 76 (Pol) DL/76NOV207

**[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT]** Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

**[CONCOMITANT DISEASES IN MACROFOCAL MYOCARDIAL INFARCT]** Danish Gia, Guseva NP *Vrach Delo* 72-6, Dec 75 (Rus) DL/76NOV269

**[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)]** Oravec D, Moravec R *Bratisl Lek Listy* 65: 84-94, Jan 76 (Cze) DL/76NOV448

**PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION.** Vanhaelst L, Degate JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) DL/76NOV501

### INFECTION

**ON THE RELATION OF GENITAL TO URINARY TRACT INFECTIONS. DIAGNOSTIC PROBLEMS.** PP. 193-9. Fritz H *In* Danielsson D, et al., ed. *Genital infections and their complications. Stockholm, Almqvist & Wiksell, 1975. WC 140 5988p* 1974. (Eng) DL/76NOV117

### INFECTION, URINARY

**[URINARY INFECTION AND DIABETES MELLITUS. CLINICAL ASPECTS, TREATMENT AND COMPLICATIONS. CONCLUSIONS]** Gomez-Arnau JL, Rojas-Hidalgo E *Rev Clin Esp* 141: 441-8, 15 Jun 76 (Spa) DL/76NOV229

### INFECTION, URINARY TRACT

**ON THE RELATION OF GENITAL TO URINARY TRACT INFECTIONS. DIAGNOSTIC PROBLEMS.** PP. 193-9. Fritz H *In* Danielsson D, et al., ed. *Genital infections and their complications. Stockholm, Almqvist & Wiksell, 1975. WC 140 5988p* 1974. (Eng) DL/76NOV117

### INFORMATION TRANSFER

**INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION.** PP. 63-95 Vassileva-Popova JG, Yanev TK *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p.* (Eng) [139] \*DL/76NOV399

### INFUSION

**LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE.** Andrew G, Chan G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

**INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY.** Freeman SL, Stegink LD, Witting MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

### INFUSION, ARGININE

**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

### INFUSION, INTRAARTERIAL

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS.** Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

### INFUSION, SORBITOL

**[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION]** Matzkins F, Berg G, Bickel H, Sailer D *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

### INGESTION, ETHANOL

**IMPAIRMENT OF MITOCHONDRIAL FATTY ACID OXIDATION BY CHRONIC ETHANOL INGESTION.** Anonymous *Nutr Rev* 34: 23-5, Jan 76 (Eng) [10] \*DL/76NOV562

### INGESTION, PROTEIN

**EFFECT OF PROTEIN INGESTION ON SPLANCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS.** Wahren J, Felig P, Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

### INHERITANCE

**INHERITANCE OF DIABETES MELLITUS.** Zonana J, Rimoin DL *N Engl J Med* 295: 603-5, 9 Sep 76 (Eng) DL/76NOV180

**HYPOPHOSPHATEMIC OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS.** Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng) DL/76NOV225

**RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS.** Page MM, Asmal AC, Edwards CF *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

### INJECTION

**[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX]** Gourdoux L C *R Soc Biol (Paris)* 169: 941-5, 1975 (Fre) \*DL/76NOV453

### INJURY, ISCHEMIC

**EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS.** Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

### INJURY, MYOCARDIAL ISCHEMIC

**EFFECTS OF LIPOLYtic AND INOTROPIC STIMULATION ON MYOCARDIAL ISCHEMIC INJURY.** Kjekshus JK *Acta Med Scand [Suppl]* 35-42, 1976 (Eng) \*DL/76NOV614

### INJURY, THERMAL

**ALTERATIONS IN GLUCOSE KINETICS FOLLOWING THERMAL INJURY.** Wilmore DW, Mason AD, Pruitt BA Jr *Surg Forum* 26: 81-3, 1975 (Eng) \*DL/76NOV591

### INNER MEMBRANE VESICLE

**ATP-DEPENDENT REACTIONS CATALYZED BY INNER MEMBRANE VESICLES OF RAT LIVER MITOCHONDRIA. KINETICS, SUBSTRATE SPECIFICITY, AND BICARBONATE SENSITIVITY.** Pedersen PL *J Biol Chem* 251: 934-40, 25 Feb 76 (Eng) \*DL/76NOV516

### INOTROPIC

**EFFECTS OF LIPOLYtic AND INOTROPIC STIMULATION ON MYOCARDIAL ISCHEMIC INJURY.** Kjekshus JK *Acta Med Scand [Suppl]* 35-42, 1976 (Eng) \*DL/76NOV614

### INSECT

**GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETOORY SYSTEM.** Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

### INSECT, DIAPAUSING

**[CARBOHYDRATE METABOLISM OF DIAPAUSING INSECTS (AUTHORS TRANSL)]** Kageyama T, Takahashi SY *Protein Nucleic Acid Enzyme (Tokyo)* 20: 1285-300, Dec 75 (Jpn) [134] \*DL/76NOV570

### INSULIN

**[INTRAVENOUS SELF ADMINISTRATION OF INSULIN IN THE RAT]** Jouhaneau J C R Acad Sci [D] (Paris) 282: 1685-8, 10 May 76 (Fre) DL/76NOV30

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

**EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO.** Packard GC, Randall JG *Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

**BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION.** Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

## Diabetes Literature—Keyword Index

**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kisebaba AH, Clarke P, Vydelingum N, Tulloch B, Fraser TB. *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

**ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT.** Kitagawa T, Aikawa T. *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) DL/76NOV86

**THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION.** Stein TP, Leskiw MJ, Wallace HW, Blakemore WS. *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

**EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOLYCEMIA AND LYSINE-VASOPRESSIN IN MAN.** Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C. *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y. *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

**CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOLYCEMIA IN MAN.** Sensi S, Capani F. *J Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID.** pp. 44-8. Sailler S. In: *Hautvast JGAJ, et al., ed. Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

**EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY.** Carpenter JL, Perrelet A, Orci L. *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

**LETTER: INSULIN LIPOTROPHY.** Sachson RA, Feld S. *JAMA* 236: 820-1, 16 Aug 76 (Eng) DL/76NOV147

**[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT]** Rylova AK. *Kardiologiya* 15: 100-3, Sep 75 (Rus) DL/76NOV150

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-MATURITY.** Kashyap ML, Sivasambu R, Sothy SP, Cheah JS, Gartside PS. *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

**CIRCULAR DICHROISM STUDIES ON THE INTERACTION OF SULFONYLUREAS WITH INSULIN.** Muller WE, Wollert U. *Naunyn Schmiedebergs Arch Pharmacol* 293: 97-9, Mar 76 (Eng) DL/76NOV185

**[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT]** Kozlowski W. *Pol Arch Med Wewn* 56: 45-54, Jul 76 (Pol) DL/76NOV207

**EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS.** Bogoliubov VM, Ershova LM, Kaplan MA, Syzgantseva LM. *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

**EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genne H. *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

**GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS.** Blom AK, Halse K, Hove K. *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

**GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS.** Halse K, Blom AK, Hove K. *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

**K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO.** Berg T, Iversen JG. *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

**POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN.** Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL. *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

**[EFFECT OF TOLBUTAMIDE ON PLASMAPHATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)]** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G. *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

**EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS.** Das I, Chain ER. *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

**CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN.** Field B, Coore HG. *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

### INSULIN ANTIBODY

**LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES.** Scherthauer G, Ludwig H, Mayr WR, Willensdorfer R. *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

### INSULIN BINDING

**INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS.** Esber EC, Buell DN, Leikin SL. *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

**INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS.** Olefsky JM, Reaven GM. *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

**THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES.** Olefsky JM. *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

### INSULIN BINDING ANTIBODY

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchev II, Shishcheva AC, Ditzov SP, Andreev DC, Sirakov LM. *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

## INSULIN, IMMUNOREACTIVE

### INSULIN, BIOSYNTHESIS

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF. *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

### INSULIN, BLOOD

**[ACTIVITY OF BLOOD INSULIN IN DIABETES MELLITUS]** Litovchenko IuS. *Vrach Delo* 105-8, Oct 75 (Rus) DL/76NOV268

### INSULIN CONTENT

**[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME]** Bogatyrev OP, Tishenina RS, Zenovko EI. *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

### INSULIN DEGRADATION

**INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY.** Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL. *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

### 125I-INSULIN DEGRADATION

**RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS.** Terris S, Steiner DF. *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

### INSULIN DEPENDENT DIABETIC

**[THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCIES]** Tchobroutsky C, Cedard L, Rouvillo JL, Amiel-Tison C. *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

### INSULIN GLUCOSE SENSITIVITY

**EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genne H. *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

### INSULIN, IMMUNOREACTIVE

**[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS]** Palazzuoli V, Gragnoli G, Favilli R, Tanganelli I, Migliarese G. *Boll Soc Ital Biol Sper* 52: 630-5, 15 May 76 (Ita) DL/76NOV2

**[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT]** Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM. *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

**[LEVEL OF IMMUNOREACTIVE INSULIN IN BLOOD SERUM IN CHRONIC KIDNEY DISEASES]** Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevravina OG. *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

**[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE]** Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaya KI. *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

## Diabetes Literature—Keyword Index

### INSULIN, INTRAVENOUS

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV28

### INSULIN, INTRAVENOUS

TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES. Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balanse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

### INSULIN, OX

ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG; THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN. Hollins PJ, Hinsworth RL *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG. Hollins PJ, Smith GH, Hinsworth RL *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) DL/76NOV33

### INSULIN, PLASMA

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESIVE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESIVE HYPERGLYCAEMIC MICE. Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

### INSULIN, PURIFIED

THE NATURE AND USE OF PURIFIED INSULINS. Martin FI *Aust Fam Physician* 5: 514-25, May 76 (Eng) DL/76NOV348

### INSULIN, RATTLESNAKE

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

### INSULIN RELEASE

THE CONTROL OF INSULIN RELEASE BY SUGARS. Ashcroft SJ *Ciba Found Symp* 41: 117-39, 1976 (Eng) [38] DL/76NOV37

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE. Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP. Weekes TE, Bueno L, Garcia-Villar R *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

INSULIN RELEASE IS GLUCOSE ANAMERIC SPECIFIC IN THE HUMAN. Rossini AA, Soeldner JS *J Clin Invest* 57: 1083-8, Apr 76 (Eng) DL/76NOV102

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL? Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

EFFECTS OF DRUGS ON GLUCOSE AND TOL-BUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS. El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

### INSULIN RELEASING

PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY. Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

### INSULIN, REPTILIAN

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

### INSULIN REQUIRING DIABETES

RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE. Thayssen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

### INSULIN REQUIRING DIABETIC

DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS. Roed-Petersen K, Thayssen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

### INSULIN RESPONSE, PLASMA

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

### INSULIN SECRETAGOGUE

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

### INSULIN SECRETION

EFFECT OF HEXOSSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

THE MODE OF ACTION OF ADENOSINE 3:5-CYCLOC PHOSPHATE IN THE REGULATION OF INSULIN SECRETION. Montague W, Howell SL *Ciba Found Symp* 41: 141-58, 1976 (Eng) [33] DL/76NOV38

THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT. Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

THE REGULATION OF INSULIN SECRETION. Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [814] DL/76NOV235

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

THE EFFECT OF N-ACYGLGLUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT. Ashcroft SJ, Crossley JR, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

### INSULIN, SERUM

[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILCH COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM] Kirchgesner M, Roth HP, Schwarz WA Z *Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

### INSULIN, SERUM IMMUNOREACTIVE

SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOL-BUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

### INSULIN, SINGLE COMPONENT

ANAPHYLACTOID REACTION TO SINGLE-COMPONENT PORK INSULIN. Goldman RA, Lewis AE, Rose LI *JAMA* 236: 1148-9, 6 Sep 76 (Eng) DL/76NOV146

### INSULIN TOLERANCE

GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION. PP. 91-106. Kraft JR *In0 Hunter OB Jr, ed. Radioassay0 clinical concepts. Skokie, Ill., Searle, 1974. QY 250 59892r 1974.* (Eng) DL/76NOV124

### INSULIN TREATMENT

CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT. Murakami H *Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

[INCIDENCE AND COURSE OF DIABETES AS WELL AS ITS COMPLICATIONS IN ERITHEA UNDER CONDITIONS OF MALNUTRITION AND IRREGULAR INSULIN

## Diabetes Literature—Keyword Index

### INTRAVENOUS GLUCOSE

**TREATMENT]** Szadkowski M *Pol Tyg Lek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

#### INSULIN-DEPENDENT DIABETES

**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS]** Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

#### INSULIN-LIKE

**POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARACTERIZATION, AND SOME BIOLOGICAL PROPERTIES OF FORMS I AND II]** Rinderknecht E, Humber RE *Proc Natl Acad Sci USA* 73: 2365-9, Jul 76 (Eng) DL/76NOV215

**GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETORY SYSTEM.** Tager HS, Markee J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

#### INSULIN-LIKE ACTIVITY, NONSUPPRESSIBLE

**INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY.** Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

#### INSULINOMA, CHILD

**INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APPROPOS OF 2 CASES)]** Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

#### INSULOMA, PANCREATIC

**ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT]** Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

#### INTERCONVERSION

**PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES.** Boland MJ, Gutfreund H *Biochem J* 151: 715-27, Dec 75 (Eng) DL/76NOV637

#### INTERNAL DISEASE

**INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS]** Hankiewicz J, Scieszkowa M *Wiad Lek* 29: 1311-5, 15 Jul 76 (Pol) DL/76NOV273

**FUNDAMENTALS OF PARENTERAL FEEDING IN INTERNAL DISEASES]** Trubenstein G, Kikis D *Infusionstherapie* 2: 450-5, Dec 75 (Ger) DL/76NOV655

#### INTERSTITIAL FLUID

**SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN.** Poulsen HL *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV353

#### INTESTINAL

**INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE.** Christopher JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

**RESISTANCE OF INTESTINAL TRIGLYCERIDE TRANSPORT CAPACITY IN THE RAT TO ADAPTATION TO ALTERED LUMINAL ENVIRONMENT.** Wu AL, Bennett Clark S *Am J Clin Nutr* 29: 157-68, Feb 76 (Eng) DL/76NOV620

#### INTESTINAL ACTIVE TRANSPORT

**SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOPHORALUS HORTENSIS MULLER).** Barber A, Jordana R, Ponz F *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) DL/76NOV571

#### INTESTINAL EPITHELIAL CELL

**SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM.** Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) DL/76NOV426

#### INTESTINAL EPITHELIUM

**ACTIVE TRANSPORT OF ELECTROLYTES AND NONELECTROLYTES IN THE INTESTINAL EPITHELIUM. PP. 99-106.** Csaky TZ *Inn Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) DL/76NOV386

#### INTESTINAL TRANSPORT

**[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM]** Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV503

**THE EFFECT OF ETHOXQUIN ON THE INTESTINAL TRANSPORT OF GLUCOSE AND WATER IN VITRO.** Skaarup JU *Acta Pharmacol Toxicol (Kbh)* 38: 174-6, Feb 76 (Eng) DL/76NOV606

#### INTESTINE, SMALL

**THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS.** PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *Inn Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) DL/76NOV419

**CIRCADIAN RHYTHMS IN DISACCHARIDASES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE.** Saito M, Murakami E, Suda M *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) DL/76NOV431

**PROCEEDINGS: THE EFFECTS OF NON-TRANSPORTABLE COMPETITIVE INHIBITORS OF SUGAR TRANSFER ON THE SHORT-CIRCUIT CURRENT OF THE RAT EVERTED SMALL INTESTINE.** Muffli IW,

Widdas WF *J Physiol (Lond)* 254: 50P-52P, Jan 76 (Eng) DL/76NOV538

**PROCEEDINGS: EFFECT OF ACTIVELY TRANSPORTED HEXOSES ON AFFERENT NERVE DISCHARGE FROM RAT SMALL INTESTINE IN VIVO.** Sanford PA *J Physiol (Lond)* 254: 75P-76P, Jan 76 (Eng) DL/76NOV539

**EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO.** Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) DL/76NOV663

#### INTIMA

**MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS PRESERVED.** Morrison AD, Berwick L, Orci L, Vinegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) DL/76NOV526

#### INTRAARTERIAL INFUSION

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS.** Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) DL/76NOV651

#### INTRACELLULAR TRANSMITTER

**[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION]** Iudaea NA, Afionogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] DL/76NOV601

#### INTRAVENOUS

**[INTRAVENOUS SELF ADMINISTRATION OF INSULIN IN THE RAT]** Jouhanneau J C R Acad Sci [D] (Paris) 282: 1685-8, 10 May 76 (Fre) DL/76NOV30

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

**EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION.** Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

**THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE.** Young M, Soltész G, Noakes D, Joyce J, McFadie IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) DL/76NOV537

#### INTRAVENOUS ADMINISTRATION

**ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS.** Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

#### INTRAVENOUS GLUCOSE

**PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN.** Notelovitz

## Diabetes Literature—Keyword Index

### INTRAVENOUS INSULIN

M. James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) \*DL/76NOV196

### INTRAVENOUS INSULIN

TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES. Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasso EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

### INTRAVENOUS TOLBUTAMIDE

[Differences Found in Serum Serotonin Between a Group of Normal and Subjects of Obese Patients Following Intravenous Tolbutamide Administration] Castel Aznar C, Tamari Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

### INULIN

[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HAEMOGLOBINURIA (AUTHORS TRANSL)] Angulo P, Fernandez J, Lasierra J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

### IODIDE

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

### IODINATION

IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY. Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

### ION

[ION-DEPENDENT CONFORMATIONAL TRANSITIONS IN TRANSPORT ATPASE MEMBRANE PREPARATIONS] Raikhman LM, Moshkovskii IuS *Mol Biol* 8: 768-74, Sep-Oct 74 (Rus) \*DL/76NOV553

### ION, CALCIUM

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

### ION, HYDROGEN

HYDROGEN ION CONCENTRATION AND OXYGEN UPTAKE IN AN ISOLATED CANINE HINDLIMB. Harken AH *J Appl Physiol* 40: 1-5, Jan 76 (Eng) \*DL/76NOV508

### ION, POTASSIUM

THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST. Scharff TG, Perry AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng) \*DL/76NOV567

### ION, SODIUM

SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM. Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

### ION TRANSPORT

[TRANSPORT TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biochimia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA2+ ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov Iak, Gainutdinov MKh, Salikov RS, Gizzatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

### IONIC

THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

### IONIC PERMEABILITY

EFFECTS OF PEPTIDE PV AND RELATED COMPOUNDS ON THE IONIC PERMEABILITY OF LIPID BILAYER MEMBRANES. pp. 157-66. Testes DC *Int Gardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV390

### IONIC POLARIZABILITY

EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFFUSION IN LIPID BILAYER MEMBRANES. Bradshaw RW, Robertson CR *J Membr Biol* 25: 93-114, 4 Dec 75 (Eng) \*DL/76NOV540

### IONOPHORE

IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM. Kafka MS, Holz RW *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

### IONOPHORE, CALCIUM

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

### ISCHEMIA

EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS. Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117-23, 1976 (Eng) \*DL/76NOV611

### ISCHEMIA, MYOCARDIAL

CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND

CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

EFFECTS OF LIPOLYTIC AND INOTROPIC STIMULATION ON MYOCARDIAL ISCHEMIC INJURY. Kjekshus JK *Acta Med Scand [Suppl]* 35-42, 1976 (Eng) \*DL/76NOV614

### ISCHEMIC

FACTORS MODIFYING ISCHEMIC ALTERATIONS OF VENTRICULAR FUNCTION AND METABOLISM IN THE INTACT WORKING SWINE HEART. Liedtke AJ *Acta Med Scand [Suppl]* 57-64, 1976 (Eng) \*DL/76NOV615

### ISCHEMIC ARREST

CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

### ISCHEMIC HEART

RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS. Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) \*DL/76NOV616

### ISCHEMIC HEART DISEASE

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaya KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

### ISCHEMIC INJURY

EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS. Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

### ISLET

[THE PANCREATIC ISLETS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN] Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO. Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

EFFECT OF HEXOSSES AND MANNOHEPTOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grilli V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhlike H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM

## Diabetes Literature—Keyword Index

**FISH PANCREATIC ISLETS BY OLIGO(2-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY.** Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D. *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

**INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE.** Montague W, Howell SL, Green IC. *Hor Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESIVE HYPERGLYCAEMIC MICE.** Best L, Atkins TW, Matty AJ. *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

**DISTRIBUTION OF LABELLED STREPTOZOTOCIN IN MICE: UPTAKE AND RETENTION IN PANCREATIC ISLETS.** Tjalve H, Wilander E, Johansson EB. *J Endocrinol* 69: 455-6, Jun 76 (Eng) DL/76NOV134

**AN EXPERIMENTAL INVESTIGATION INTO THE POSSIBLE NEURAL CREST ORIGIN OF PANCREATIC APUD (ISLET) CELLS.** Andrew A. *J Embryol Exp Morphol* 35: 577-93, Jun 76 (Eng) DL/76NOV135

**SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matac A, Sutherland DE, Steffes MW, Najaraj JS. *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

**AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL).** Violante A, Nardoni C, Lenza G. *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

**CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE.** Sehlin J. *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

**LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE.** Berne C, Andersson A. *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

**MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS.** Sener A, Malaisse WJ. *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

**CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER.** Schubart UK, Rosen OM. *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

**ISLET CELL TUMOR**

**ISLET CELL TUMORS OF THE PANCREAS.** PP. 183-7. Selawy HP. In: Charyulu KK, Sudarshan A, ed. *Hormones and cancer*. New York, Stratton, 1976. W3 C162GS 1975h. (Eng) DL/76NOV116

**ISLET FUNCTION**

**CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL.** Somers G, Davis G, Van Obberghen E, Malaisse WJ. *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

**ISLET, ISOLATED**

**EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS.** El-Denshary EE, Montague W. *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

**ISLET ISOLATION**

**PROCEEDINGS: ISOLATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS IN RAT AND MONKEY.** Ballinger W. *Ann R Coll Surg Engl* 58: 327, Jul 76 (Eng) DL/76NOV327

**ISLET, PRINCIPAL**

**EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH).** Gill TS, Khanna SS. *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV291

**ISLET TRANSPLANTATION**

**PROCEEDINGS: ISOLATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS IN RAT AND MONKEY.** Ballinger W. *Ann R Coll Surg Engl* 58: 327, Jul 76 (Eng) DL/76NOV327

**ISOLATED ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES.** Gray BN, Watkins E. *Jt Aust J Exp Biol Med Sci* 54: 57-70, Feb 76 (Eng) DL/76NOV350

**ISOCITRATE LYASE**

**EFFECT OF GLUCOSE AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE ON THE SYNTHESIS OF SUCINATE DEHYDROGENASE AND ISOCITRATE LYASE IN ESCHERICHIA COLI.** Takahashi Y. *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng) \*DL/76NOV511

**ISOENZYME, ESTERASE**

**ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREACTOMY.** Surinov BP, Sheyanov GG. *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

**ISOPRENALEINE**

**ADENOSINE 3,5-CYCLIC MONOPHOSPHATE IN PERFUSED RAT HEARTS EXPOSED TO ISOPRENALEINE AND DOPAMINE.** Onnes JB, Oye I. *Acta Physiol Scand* 96: 100-13, Jan 76 (Eng) DL/76NOV607

**ISOTOPE**

**[GLOMERULAR FILTRATION RATE IN DIABETIC CHILDREN MEASURED BY ISOTOPE METHOD]** Drexler M, Ortevin V. *Orv Hetil* 117: 1878-83, 1 Aug 76 (Hung) DL/76NOV200

**[THE MECHANISM OF CARBON ISOTOPE FRACTIONATION IN THE METABOLIC PROCESS]** Ivlev AA, Koroleva MIA, Kaloshin AG. *Mol Biol (Mosk)* 9: 435-42, May-Jun 75 (Rus) \*DL/76NOV556

**ITSENKO-CUSHINGS SYNDROME**

**[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME]** Bogatrev OP, Tishenina RS, Zenovko EI. *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

**JAMAICAN VOMITING SICKNESS**

**JAMAICAN VOMITING SICKNESS. BIOCHEMICAL INVESTIGATION OF TWO CASES.** Tanaka K, Kean EA, Johnson B. *N Engl J Med* 295: 461-7, 26 Aug 76 (Eng) DL/76NOV182

**JAPANESE QUAIL**

**INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL.** Thomas VG, George JC. *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

**JEJUNUM**

**SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM.** Gall DG, Chapman D. *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

**ABSORPTION OF SHORT CHAIN FATTY ACIDS FROM THE HUMAN JEJUNUM.** Schmitt MG Jr, Soergel KH, Wood CM. *Gastroenterology* 70: 211-5, Feb 76 (Eng) \*DL/76NOV493

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS.** Coupar IM, McColl I. *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

**JUVENILE DIABETES**

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. I. IDENTIFYING THE PROBLEM PATIENT.** Lum BO. *J Am Diet Assoc* 69: 157-61, Aug 76 (Eng) DL/76NOV111

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT.** Lum BO. *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) DL/76NOV112

**LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES.** Scherthner G, Ludwig H, Mayr WR, Willvonseder R. *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

**24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS.** Levinsky RJ, Trompeter RS, Grant DB. *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331

**KALLMANS SYNDROME**

**DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY.** Rosenberg SM, Riddick DH. *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

**KETOACIDOSIS**

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. I. IDENTIFYING THE PROBLEM PATIENT.** Lum BO. *J Am Diet Assoc* 69: 157-61, Aug 76 (Eng) DL/76NOV111

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT.** Lum BO. *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) DL/76NOV112

## Diabetes Literature—Keyword Index

### KETOACIDOSIS, DIABETIC

#### KETOACIDOSIS, DIABETIC

MULTIPLE COMPLICATIONS IN SEVERE DIABETIC KETOACIDOSIS. A SHORT REVIEW OF THE LITERATURE. Clarke BF, Campbell IW. *Acta Diabetol Lat* 12: 327-37, Sep-Dec 75 (Eng) DL/76NOV288

#### KETOALKALOSIS DIABETIC

DIABETIC KETOALKALOSIS: A READILY MISDIAGNOSED ENTITY. Lim KC, Walsh CH. *Br Med J* 2: 19, 3 Jul 76 (Eng) DL/76NOV20

#### 7-KETOCHOLESTEROL

IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL. Sarma JS, Fischer R, Ikeda S, Bing RJ. *Proc Soc Exp Biol Med* 151: 303-6, Feb 76 (Eng) \*DL/76NOV568

#### ALPHA-KETOGLUTARATE

CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE. Khililar M, Uong DS. *Biochimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

#### KETONE BODY

[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION] Matzakis F, Berg G, Bickel H, Sailer D. *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

#### KETOSIS

RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID. Pi-Sunyer FX. *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

#### KETOSIS, LABOR

LAETIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR. Ames AC, Cobbold S, Maddock J. *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

#### KIDNEY

PLASMA GLUCAGON AFTER KIDNEY EXCLUSION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN EVISCERATED DOGS. Lefebvre PJ, Luyckx AS. *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV174

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinne R, Baumann K. *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

#### KIDNEY DISEASE

[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES] Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevravina OG. *Klin Med (Mosk)* 53: 25-39, Oct 75 (Rus) DL/76NOV158

#### KIDNEY FAILURE

[ADVANCES IN NEPHROLOGY. KIDNEY FAILURE IN PATIENTS WITH DIABETES MELLITUS] Siciński A. *Pol Arch Med Wewn* 56: 81-91, Jul 76 (Pol) DL/76NOV208

#### KIDNEY SYNDROME

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA. *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

#### KIDNEY TRANSPLANTATION

[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION] Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O. *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164

#### KINASE

CA2+-DEPENDENT ACTIVATION OF PHOSPHORYLASE BY PHOSPHORYLASE KINASE IN ADIPOSE TISSUE. Khoo JC. *Biochim Biophys Acta* 422: 87-97, 23 Jan 76 (Eng) \*DL/76NOV433

#### KINASE, PROTEIN

CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER. Schubart UK, Rosen OM. *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

#### KINASE, PYRUVATE

THE CONTROL OF PYRUVATE KINASE OF *ESCHERICHIA COLI*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwal BD. *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

[IDENTIFICATION OF THE INHIBITION TYPE OF HEXOKINASE AND PYRUVATE KINASE ACTIVITY BY CA2+] Genin MS, Andreev VS. *Biochimia* 40: 885-9, Jul-Aug 75 (Rus) \*DL/76NOV644

#### KINETIC

KINETIC STUDIES ON THE METABOLISM OF ETHYLmorphine BY ISOLATED HEPATOCYTES FROM ADULT RATS. Erickson RR, Holtzman JL. *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

#### KINETIC ANALYSIS

PERIFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOSIS. Allen DO, Katocs AS Jr, Largin EE, Ashmore J. *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

#### KREBS CYCLE

[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPERDERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE] Sokolov GV, Eremina SS, Lozinov AB. *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

#### LABOR

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMATURITY. Kashyap ML, Sivasambo R, Sothy SP, Cheah JS, Gartside PS. *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

#### LABOR, KETOSIS

LAETIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR. Ames AC, Cobbold S, Maddock J. *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

#### LABORATORY

GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION. PP. 91-106. Kraft JR. In *0 Hunter OB Jr, ed. Radioassay0 clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 59892 1974. (Eng) DL/76NOV124

#### LACTATE DEHYDROGENASE

PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES. Boland MJ, Gutfreund H. *Biochem J* 151: 715-27, Dec 75 (Eng) \*DL/76NOV637

#### LACTATING COW

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K. *Acta Endocrinol (Kh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

#### LACTIC

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biervliet JP, Senders RC, Lamers JM, Wadman SK. *Lancet* 1: 394, 13 Mar 76 (Eng) \*DL/76NOV545

#### LACTIC ACID

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMATURITY. Kashyap ML, Sivasambo R, Sothy SP, Cheah JS, Gartside PS. *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaisse WJ. *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

#### LACTIC ACIDOSIS

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH. *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

LAETIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR. Ames AC, Cobbold S, Maddock J. *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

#### LACTOGEN, PLACENTAL

CLINICAL ASPECTS OF PLACENTAL LACTOGEN DETERMINATIONS. PP. 131-40. Chard T. In *0 Hunter OB Jr, ed. Radioassay0 clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 59892 1974. (Eng) DL/76NOV123

## Diabetes Literature—Keyword Index

### LIPID, DIETARY

#### LACTOPEROXIDASE

IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY. Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) \*DL/76NOV218

#### LAMPREY

BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION. Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) \*DL/76NOV64

#### LASER

THE ARGON LASER AND DIABETIC RETINOPATHY. Massin M, Laborde-Berranger A *Arch Ophthalmol (Paris)* 35: 735-46, Oct 75 (Fre) \*DL/76NOV341

#### LASER, ARGON

EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC. Apple DJ, Wyhinny GJ, Goldberg MF, Polley EH *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

#### LATENT DIABETES

INNECESSITY OF ACTIVE TREATMENT OF LATENT FORMS OF DIABETES MELLITUS IN PATIENTS WITH ARTERIOSCLEROSIS. Khaletskii ME *Ter Arkh* 48: 116-20, 1976 (Rus) \*DL/76NOV253

#### LATHYROGENIC

ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT. Aumailley M, Razaka G, Larre J, Bricaud H *C R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) \*DL/76NOV449

#### LECITHIN

THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCY. Tchobroutsky C, Cedard L, Rouvillois JL, Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) \*DL/76NOV113

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) \*DL/76NOV205

#### LEG

EFFECT OF PROTEIN INGESTION ON SPLENCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS. Wahren J, Felig P, Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) \*DL/76NOV107

#### LEUCINE

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) \*DL/76NOV137

#### LEUKOCYTE

OSMOTIC RESISTANCE OF LEUKOCYTES IN PATIENTS WITH ONSET OF DIABETES BEFORE TWENTY-FIVE YEARS. Marigo S, Bersezio A *Acta Diabetol Lat* 12: 289-95, Sep-Dec 75 (Eng) \*DL/76NOV284

#### LEUKOCYTE, MONONUCLEAR

INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS. Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) \*DL/76NOV97

#### LIFE SPAN

EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBES RATS. Koletsky S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

#### LIPASE, LIPOPROTEIN

LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE. Hamoshi M, Yeager M Jr, Shechter Y, Hamoshi P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) \*DL/76NOV7

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) \*DL/76NOV79

THE CONTROL OF LIPOPROTEIN LIPASE. PP. 102-10. Cryer A, Davies P, Robinson DS *Int Hautvast JGA*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

#### LIPID

THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL) Andel M, Brodan V, Kuhn E *Cas Lek Cesk* 115: 764-6, 23 Jun 76 (Cze) DL/76NOV28

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyoon M, Dusit N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) \*DL/76NOV35

[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME] Bogatyrev OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) \*DL/76NOV249

EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE. Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) \*DL/76NOV302

INTERACTIONS OF PROTEINS AND CHOLESTEROL WITH LIPIDS IN BILAYER MEMBRANES. Kleemann W, McConnell HM *Biochim Biophys Acta* 419: 206-22, 21 Jan 76 (Eng) \*DL/76NOV425

INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES. Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID

BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM. Kafka MS, Holz RW *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

[THE ANNUAL GLUCIDO-LIPID CYCLE IN A VARANID OF SENEGAL] Ciisse M, Demaile J *C R Soc Biol (Paris)* 169: 1084-9, 1975 (Fre) \*DL/76NOV451

THE ROLE OF LIPID IN REGULATION OF MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE. Bertoli E, Finean JB, Griffiths DE *FEBS Lett* 61: 163-5, 15 Jan 76 (Eng) \*DL/76NOV485

LIPIDS OF MATRIX VESICLES. Wuthier RE *Fed Proc* 35: 117-21, Feb 76 (Eng) [41] \*DL/76NOV488

PROCEEDINGS: A ROLE FOR LIPIDS IN THE ACTIVATION OF ADENYLATE CYCLASE BY CATECHOLAMINE. Orly J, Schramm M *Int J Med Sci* 11: 1195, Nov 75 (Eng) \*DL/76NOV565

METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE. Jeejeebhoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliss EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV559

#### LIPID BILAYER

OUT-OF-PLANE FLUCTUATIONS OF LIPID BILAYERS. Helfrich W *Z Naturforsch [C]* 30: 841-2, Nov-Dec 75 (Eng) \*DL/76NOV600

NONELECTROLYTE DIFFUSION ACROSS LIPID BILAYER SYSTEMS. Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng) \*DL/76NOV661

#### LIPID BILAYER MEMBRANE

EFFECTS OF PEPTIDE PV AND RELATED COMPOUNDS ON THE IONIC PERMEABILITY OF LIPID BILAYER MEMBRANES. PP. 157-66. Testostes DC *Int Gardos G, Szasz I*, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV390

EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFFUSION IN LIPID BILAYER MEMBRANES. Bradshaw RW, Robertson CR *J Membr Biol* 25: 93-114, 4 Dec 75 (Eng) \*DL/76NOV540

#### LIPID, BLOOD

LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD. Heaton KW, Manning AP, Hartog M *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

#### LIPID COMPOSITION

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

#### LIPID, DIETARY

INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUIL. Thomas VG, George JC *Environ Physiol Biochem* 3: 413-27, 1975 (Eng) \*DL/76NOV477

## Diabetes Literature—Keyword Index

### LIPID MEMBRANE

#### LIPID MEMBRANE

RANDOMIZATION OF MEMBRANE LIPIDS IN RELATION TO TRANSPORT SYSTEM ASSEMBLY IN *ESCHERICHIA COLI*. Thilo L, Overath P *Biochemistry* 15: 328-34, 27 Jan 76 (Eng) \*DL/76NOV424

THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS. Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES. Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochem Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

#### LIPID METABOLISM

EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN. Gerich JE, Lorenzi M, Bier DM, Tsaklian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

[DIABETES MELLITUS AND LIPID METABOLISM (AUTHORS TRANSL)] Watanabe T *Jpn J Clin Pathol* 24: 211-7, Mar 76 (Jpn) DL/76NOV148

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMaturity. Kashyap ML, Sivasambu R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombard R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES] Anonymous *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275

THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spellacy WN, Buhle WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

EFFECTS OF HALOTHANE ON LIPID METABOLISM IN HUMAN ADIPOSE TISSUE. PP. 842-5. Dennis J, Smith U *In0 Arias A et al., ed. Recent progress in anaesthesiology and resuscitation. Amsterdam, Excerpta Medica, 1975. W3 EX89 no. 347 1974.* (Eng) \*DL/76NOV389

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chan G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

DUAL-LABELED TECHNIQUE FOR HUMAN LIPID METABOLISM STUDIES USING DEUTERATED FATTY ACID ISOMERS. Emken EA, Rohweder WK, Dutton HJ *Lipids* 11: 135-42, Feb 76 (Eng) \*DL/76NOV548

#### LIPID MOBILIZATION

[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT. Federighi G, Udeschini G, De Palo C, Sicolio N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

#### LIPID PROTEIN INTERACTION

LIPID-PROTEIN INTERACTION IN MODEL SYSTEMS AND BIOMEMBRANES. PP. 3-16. van Deenen LL *In0 Gardon G, Szasz I, ed. Biomembranes structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35.* (Eng) [49] \*DL/76NOV402

LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES. Stoffel W, Michaelis G *Hoppe Seyler's Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

PROCEEDINGS: LIPID-PROTEIN INTERACTIONS IN BIOLOGICAL MEMBRANES. Segrest JP *Z Klin Chem Klin Biochem* 13: 369, Aug 75 (Eng) \*DL/76NOV598

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

#### LIPOATROPHY

LETTER: INSULIN LIPOATROPHY. Sachson RA, Feld S *JAMA* 236: 820-1, 16 Aug 76 (Eng) DL/76NOV147

#### LIPOGENIC ENZYME

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESIVE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

#### LIPOLYSIS

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzalato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS. Allen DO, Katocs AS Jr, Largin EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

#### LIPOLYSIS, NORADRENALINE STIMULATED

[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

#### LIPOLYTIC

EFFECTS OF LIPOLYTIC AND INOTROPIC STIMULATION ON MYOCARDIAL ISCHEMIC INJURY. Kjekshus JK *Acta Med Scand [Suppl]* 35-42, 1976 (Eng) \*DL/76NOV614

#### LIPOLYTIC ACTION

DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYTIC ACTION OF PARATHYROID HORMONE. Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

ON THE LIPOLYTIC ACTION OF PARATHYROID HORMONE IN MAN. Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

#### LIPOLYTIC RESPONSE

EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYTIC RESPONSE IN HEREDITARY DIABETIC MICE. Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

#### LIPOPROTEIN

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

#### LIPOPROTEIN LIPASE

LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE. Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

THE CONTROL OF LIPOPROTEIN LIPASE. PP. 102-10. Cryer A, Davies P, Robinson DS *In0 Hautvast JGAJ, et al., ed. Blood and arterial wall in atherosclerosis and arterial thrombosis. Leiden, Brill, 1975. WG 550 B655 1974.* (Eng) [21] DL/76NOV122

#### LIPOPROTEIN, PLASMA

FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: IN-

## Diabetes Literature—Keyword Index

FLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID. PP. 44-8. Sailler S *In 0 Hautvast JGAJ*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATIONS INFLUENCE OF ADIPOSE TISSUE METABOLISM. PP. 30-43. Björntorp P *In 0 Hautvast JGAJ*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [37] DL/76NOV121

### LIPOPROTEIN, VERY LOW DENSITY

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLYOXY) VALERIC ACID THERAPY. Kisebaba AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynne V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

### LIPOSTATIC MECHANISM

INTERACTIONS OF GLUCOSTATIC AND LIPOSTATIC MECHANISMS IN THE REGULATORY CONTROL OF FEEDING. PP. 89-101. Le Magnen J *In 0 Novin D* et al., ed. *Hunger: basic mechanisms and clinical implications*. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) \*DL/76NOV400

### LITERATURE REVIEW

MULTIPLE COMPLICATIONS IN SEVERE DIABETIC KETOACIDOSIS. A SHORT REVIEW OF THE LITERATURE. Clarke BF, Campbell IW *Acta Diabetol Lat* 12: 327-37, Sep-Dec 75 (Eng) DL/76NOV288

### LIVER

GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT. Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS. Teris S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner B, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHEZING POLYSOMES IN RAT LIVER. Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS. Millward DJ, Nnanyelugo DO, Bates P, Heard CR *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES. Cedela N, Cabarrus A, Auciello N, Doria I, Ponce de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PER-

FUSED RAT HEART AND LIVER. Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

AUTOPHAGY-RELATED CHANGES OF ARYL-SULPHATASES A AND B IN RAT LIVER LYSOSOMES. Sanghavi P, Koenig H *Biochem J* 155: 725-8, 1 Jun 76 (Eng) DL/76NOV360

ACTIVATION BY GTP OF LIVER ADENYLYL CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP. Kimura N, Nakane K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT. Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

### LIVER CELL

GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE. Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

### LIVER CELL, ISOLATED RAT

K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO. Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS. Siess EA, Weiland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

### LIVER CIRRHOSIS

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS] Moskvichev AM, Shlimovich PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

### LIVER DISEASE

RADIORESPIROMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE. DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) \*DL/76NOV532

### LIVER, FATTY

[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS] Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

### LIVER, PERFUSED

#### LIVER, FROG

EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO. Packard GC, Randall JG *Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

#### LIVER GLYCOGEN

A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT. Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL. Davison TF, Langslow DR *Comp Biochem Physiol* [A] 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

#### LIVER MITOCHONDRIA

[CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGULUTARATE AND PHOSPHATE] Khililar M, Uong DS *Biochimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA2+ & ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov Iak, Gainutdinov MKh, Salikov RS, Gizatullina ZZ, Lavina Il Dokl Akad Nauk SSSR 226: 478-82, 11 Jan 76 (Rus) \*DL/76NOV465

REGULATION OF CITRATE TRANSPORT IN RAT LIVER MITOCHONDRIA METABOLIZING PYRUVATE. Stucki JW *FEBS Lett* 61: 171-5, 15 Jan 76 (Eng) \*DL/76NOV486

ATP-DEPENDENT REACTIONS CATALYZED BY INNER MEMBRANE VESICLES OF RAT LIVER MITOCHONDRIA. KINETICS, SUBSTRATE SPECIFICITY, AND BICARBONATE SENSITIVITY. Pedersen PL *J Biol Chem* 251: 934-40, 25 Feb 76 (Eng) \*DL/76NOV516

STOICHIOMETRY OF H4 EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA2+ & BY RAT LIVER MITOCHONDRIA. Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS] Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

#### LIVER MITOCONDRIA

A MAJOR POLYPEPTIDE COMPONENT OF RAT LIVER MITOCHONDRIA: CARBAMYL PHOSPHATE SYNTHETASE. Clarke S *J Biol Chem* 251: 950-61, 25 Feb 76 (Eng) \*DL/76NOV517

#### LIVER, PERFUSED

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whittom PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

## Diabetes Literature—Keyword Index

### LIVER PLASMA MEMBRANE

#### LIVER PLASMA MEMBRANE

IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY. Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

### LIVER TRANSPLANTATION

HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION. Machado MC, Monteiro da Cunha JE, Maragardo NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

### LOCOMOTOR STIMULATING AGENT

REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS. Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

### LOWER EXTREMITY

SURGICAL INDICATIONS IN ARTERITIS OF THE LOWER EXTREMITIES IN 70-YEAR-OLD PATIENTS. Firouz Abadie H *Phlebologie* 28: 483-91, Jul-Sep 75 (Fre) DL/76NOV221

LOWER EXTREMITY AMPUTATIONS IN THE COUNTY OF AALBORG 1961-1971. POPULATION STUDY AND FOLLOW-UP. Christensen S *Acta Orthop Scand* 47: 329-34, Jun 76 (Eng) DL/76NOV293

### LOWER LIMB

LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

### LUMINAL

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

### LUMINAL ENVIRONMENT

RESISTANCE OF INTESTINAL TRIGLYCERIDE TRANSPORT CAPACITY IN THE RAT TO ADAPTATION TO ALTERED LUMINAL ENVIRONMENT. Wu AL, Bennett Clark S *Am J Clin Nutr* 29: 157-68, Feb 76 (Eng) \*DL/76NOV620

### LUNG

LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE. Hamosh M, Yeager M Jr, Shechter Y, Hamosh P *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

### LYMPHOCYTE

CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL BLOOD LYMPHOCYTES. Apollonj MC, Vasile C, Floridi A, Natali PG *Immunol Commun* 4: 453-63, 1975 (Eng) \*DL/76NOV654

### LYMPHOCYTIC LEUKEMIA, ACUTE

INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS. Esber EC, Buell DN, Leikin SL *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

### LYSINE

STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSCOPY. Moczar M, Allard R, Ouzilou J, Robert L, Bousso H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

### LYSINE VASOPRESSIN

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

### LYSOSOMAL

ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT. Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

### LYSOSOME

AUTOPHAGY-RELATED CHANGES OF ARYL-SULPHATASES A AND B IN RAT LIVER LYSOSOMES. Sanghani P, Koenig H *Biochem J* 155: 725-8, 1 Jun 76 (Eng) DL/76NOV360

### MACROANGIOPATHY, CORONARY

[INCIDENCE OF CORONARY MACROANGIOPATHY IN CLINICALLY MANIFEST DIABETES MELLITUS] Leon A, Mincu I *Rev Med Intern* [Med Intern] 28: 41-8, Jan-Feb 76 (Rum) DL/76NOV230

### MACROMOLECULE BINDING

MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES. Orci L *Ciba Found Symp* 41: 267-80, 1976 (Eng) DL/76NOV40

### MACULOPATHY, DIABETIC

CLINICO-PATHOLOGICAL STUDY OF AN ORGANIZED PLAQUE IN EXUDATIVE DIABETIC MACULOPATHY. Begg IS, Rootman J *Can J Ophthalmol* 11: 197-202, Jul 76 (Eng) DL/76NOV25

### MAGNESIUM

PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM. Attwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

[MAGNESIUM IN BIOLOGY AND MEDICINE] Opienska-Blaith J, Stankiewicz Z, Kulesza S *Postepy Hig Med Dosw* 29: 665-717, Nov-Dec 75 (Pol) [118] \*DL/76NOV563

### MAGNETIC RESONANCE

MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME,

TRANSCARBOXYLASE. Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

### MAL PERFORANS

SURGICAL TREATMENT OF MAL PERFORANS. Singer A *Arch Surg* 111: 964-8, Sep 76 (Eng) DL/76NOV340

### MALFORMATION, CONGENITAL

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

### MALIGNANCY

LETTER: DIABETES MELLITUS, CHROMOSOMAL ABERRATION, AND MALIGNANCY. Shaw JF, Kansal PC, Gatti RA *Lancet* 2: 315, 7 Aug 76 (Eng) DL/76NOV166

### MALIGNANT

[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH] Kashulina AP, Tereshchenko IP *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

### MALIGNANT EXTERNAL OTITIS

MALIGNANT EXTERNAL OTITIS: A SEVERE DISEASE IN DIABETIC PATIENTS. Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

### MALNUTRITION

[INCIDENCE AND COURSE OF DIABETES AS WELL AS ITS COMPLICATIONS IN ERITHREA UNDER CONDITIONS OF MALNUTRITION AND IRREGULAR INSULIN TREATMENT] Szakowski M *Pol Tyg Lek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

ADRENOCORTICOSTEROIDS AND CORTICO-STEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

### MAMMARY GLAND

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

### MAN, YOUNG

LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD. Heaton KW, Manning AP, Hartog M *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

### MANAGEMENT

THE MANAGEMENT OF DIABETIC TRACTION DETACHMENT. Zayed A *Bull Ophthalmol Soc Egypt* 68: 409-13, 1975 (Eng) DL/76NOV16

DIABETIC NEUROPATHY: CLINICAL MANIFESTATIONS, DIAGNOSIS, AND MANAGEMENT. Lovrien F, Shipp JC *Nebr Med J* 61: 218-22, Jul 76 (Eng) DL/76NOV186

## Diabetes Literature—Keyword Index

### MEMBRANE LIPIDS

ERYTHROID CELLS. Wiss WC *J Cell Physiol* 87: 199-201, Dec 75 (Eng) \*DL/76NOV519

### MEMBRANE, BILAYER

INTERACTIONS OF PROTEINS AND CHOLESTEROL WITH LIPIDS IN BILAYER MEMBRANES. Kleemann W, McConnell HM *Biochim Biophys Acta* 419: 206-22, 21 Jan 76 (Eng) \*DL/76NOV425

### MEMBRANE, BIOLOGICAL

PROCEEDINGS: LIPID-PROTEIN INTERACTIONS IN BIOLOGICAL MEMBRANES. Segrest JP *Z Klin Chem Klin Biochem* 13: 369, Aug 75 (Eng) \*DL/76NOV598

### MEMBRANE, CELL

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

### MEMBRANE, LIPID

THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES. Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochim Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

### MEMBRANE, LIPID BILAYER

EFFECTS OF PEPTIDE PV AND RELATED COMPOUNDS ON THE IONIC PERMEABILITY OF LIPID BILAYER MEMBRANES. PP. 157-66. Testes D. In: Gardos G, Szasz I, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 515-23, 15 Jan 76 (Eng) \*DL/76NOV390

EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFFUSION IN LIPID BILAYER MEMBRANES. Bradshaw RW, Robertson CR J *Membr Biol* 25: 93-114, 4 Dec 75 (Eng) \*DL/76NOV540

### MEMBRANE, LIPID BIMOLECULAR

IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM. Kafka MS, Holz RW *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

### MEMBRANE LIPID FLUIDITY

INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES. Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

### MEMBRANE LIPIDS

RANDOMIZATION OF MEMBRANE LIPIDS IN RELATION TO TRANSPORT SYSTEM ASSEMBLY IN *ESCHERICHIA COLI*. Thilo L, Overath P *Biochemistry* 15: 328-34, 27 Jan 76 (Eng) \*DL/76NOV424

### MANAGEMENT, DIETARY

CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON. Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) \*DL/76NOV332

### MANIC DEPRESSIVE PSYCHOSIS

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzik C, Geck P, Pfeiffer B. In: *Hototan N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395

### MANNOHEPTULOSE

EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) \*DL/76NOV140

### MASS

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) \*DL/76NOV361

### MASS SPECTROMETRY

GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL *Anal Chem* 48: 1386-94, Aug 76 (Eng) \*DL/76NOV316

### MATERNAL DIABETES

THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS. Emrich P, Fuchs U, Heineke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) \*DL/76NOV160

### MATHEMATICAL APPROACH

A NEW MATHEMATICAL APPROACH OF HORMONAL REGULATORY MECHANISMS DURING GROWTH. PP. 3-11. Collot F, In: *Vassileva-Popova JG*, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV385

### MATRIX VESICLE

LIPOSOMES OF MATRIX VESICLES. Wuthier RE *Fed Proc* 35: 117-21, Feb 76 (Eng) [41] \*DL/76NOV488

### MATURATION

MATURATION OF MEMBRANE FUNCTION: TRANSPORT OF AMINO ACID BY RAT ERYTHROID CELLS. Wiss WC *J Cell Physiol* 87: 199-201, Dec 75 (Eng) \*DL/76NOV519

### MATURATION DISORDER

PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATURATION DISORDERS. (MORPHOLOGICAL FINDINGS AND

SEVERITY OF THE DISEASE) Holzl VM, Luthje D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

### MATURATION, SEXUAL

BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION. Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) \*DL/76NOV64

### MEDICAL

[MEDICAL COUNTERINDICATIONS FOR PREGNANCY] Monnier JC *Lille Med* 20 spec no: 242-6, 1975 (Fre) \*DL/76NOV168

### MEDICAL PARAMETER

TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS. Schiott CR, Loe H, Briner WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) \*DL/76NOV140

### MEDICAL TREATMENT

OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiyama F, Inada H, Kitabatake A, Horii M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) \*DL/76NOV34

### MEDICO GENETIC COUNSELING

[GENETIC HETEROGENEITY AND MEDICO-GENETIC COUNSELING IN DIABETES MELLITUS] Liberman IS *Klin Med (Mosk)* 53: 29-36, Oct 75 (Rus) \*DL/76NOV159

### MEDIUM

THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

### MEDROXY PROGESTERONE ACETATE

EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM. Hertelendy F, Dahn CH Jr, Mueller EJ *Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

### MEDROXYPROGESTERONE ACETATE

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyoon M, Dusitai N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) \*DL/76NOV35

### MEMBRANE

MATURATION OF MEMBRANE FUNCTION: TRANSPORT OF AMINO ACID BY RAT

## Diabetes Literature—Keyword Index

### MEMBRANE, LIVER PLASMA

#### MEMBRANE, LIVER PLASMA

IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY. Pohl SL. *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

#### MEMBRANE, MICROSOMAL

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC. *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) \*DL/76NOV514

#### MEMBRANE, MITOCHONDRIAL

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A. *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Beck DP, Greenawalt JW J. *Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### MEMBRANE, MYOCARDIAL

THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS. Gudbjarnason S, Hallgrímsson J. *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

#### MEMBRANE, PLASMA

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY. Carpenter JL, Perrelet A, Orci L. *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Saffran E, Le Magnen J. *Colloque Européen de physiologie renale. Paris, INSERM, 1974. WJ 300 E89c* 1974. (Eng) DL/76NOV401

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J. *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

#### MEMBRANE PREPARATION

[ION-DEPENDENT CONFORMATIONAL TRANSITIONS IN TRANSPORT ATPASE MEMBRANE PREPARATIONS] Raikhman LM, Moshkovskii Iu. *Mol Biol* 8: 768-74, Sep-Oct 74 (Rus) \*DL/76NOV553

#### MEMBRANE PUMP

LETTER: ENERGY REQUIREMENTS OF MEMBRANE PUMPS. Minkoff L, Damadian R. *N Engl J Med* 292: 162-3, 16 Jan 75 (Eng) \*DL/76NOV669

#### MEMBRANE RECEPTOR

MEMBRANE RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS. Kahn CR. *J Cell Biol* 70: 261-86, Aug 76 (Eng) DL/76NOV89

#### MEMBRANE STRUCTURE

SPECTROSCOPIC STUDIES OF MEMBRANE STRUCTURE. Marsh D. *Essays Biochem* 11: 139-80, 1975 (Eng) [82] \*DL/76NOV478

#### MEMBRANE TOPOLOGY

MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES. Orci L. *Ciba Found Symp* 41: 267-80, 1976 (Eng) DL/76NOV40

#### MEMBRANE TRANSPORT

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H. *In: Gardos G, Szasz I, ed. Biomembrane<sub>0</sub> structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35.* (Eng) \*DL/76NOV419

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y. *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

#### MEMBRANE VESICLE

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J. *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

#### MEMBRANE VESICLE, BILAYER

PHOSPHOLIPID EXCHANGE BETWEEN BILAYER MEMBRANE VESICLES. Martin FJ, MacDonald RC. *Biochemistry* 15: 321-7, 27 Jan 76 (Eng) \*DL/76NOV423

#### MENSTRUAL CYCLE

SOME PHYSIOLOGICAL AND BIOCHEMICAL MEASUREMENTS OVER THE MENSTRUAL CYCLE. PP. 259-75. Freedman SH, Ramcharan S, Hoag E, Goldfine A. *In: Ferin M et al., ed. Biorhythms and human reproduction. New York, Wiley, 1974. QT 167 B616 1972.* (Eng) \*DL/76NOV413

#### MENTAL STRESS

CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS. Bennett T, Hosking DJ, Hampton JR. *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

#### MESSANGER, CHEMICAL

GROWTH AND DEVELOPMENTAL HORMONES AS CHEMICAL MESSENGERS. PP. 261-78. Tata JR. *In: Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p.* (Eng) [2] \*DL/76NOV394

#### MESSENGER RIBONUCLEIC ACID

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D. *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

#### METABOLIC

DEFINITIONS IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR. *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME. Bernards LL, Goldman JK. *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L. *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS. Avram MM, Lipner HI, Sadiqali R, Iancu M, Gan AC. *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH S-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA). Schillinge E, Loge O. *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381

[USE OF ETHANOL NATURALLY ENRICHED IN CARBON 13 FOR METABOLIC STUDIES] Bricout J, Le Bourhis B, Koziot J. *C R Soc Biol (Paris)* 169: 904-11, 1975 (Fre) \*DL/76NOV452

[THE RELATIONSHIP BETWEEN PRE-EXERCITIONAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY] Krasnaya AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR. *Fiziol Z SSSR* 61: 530-6, Apr 75 (Rus) \*DL/76NOV489

[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS] Umeda M. *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL OF THE RAT (AUTHORS TRANSL)] Merkle P, Bindewald H, Breitig D. *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546

[THE MECHANISM OF CARBON ISOTOPE FRACTIONATION IN THE METABOLIC PROCESS] Ivlev AA, Koroleva MIA, Kaloshin AG. *Mol Biol (Mosk)* 9: 435-42, May-Jun 75 (Rus) \*DL/76NOV556

[ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX] Brendel K, Meezan E, Carlson EC. *Science* 185: 953-5, 13 Sept 74 (Eng) \*DL/76NOV584

SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA. PP 248-59. Carruthers ME, Taggart P, Salpke PD, Gatt JA. *In: Schweizer W, ed. Beta-blockers -*

## Diabetes Literature—Keyword Index

present status and future prospects. *Bern, Huber, 1974. QV 132 B562 1974. (Eng) \*DL/76NOV640*

**METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE.** Jeejeebhoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliis EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

### METABOLIC ABNORMALITY

**PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY.** Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

### METABOLIC ACIDOSIS

**EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION.** Beck N, Webster SK *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

### METABOLIC, CEREBRAL

**[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY.]** Brodskia NI, Zотов ИУВ, Shchedrenok ВВ, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

### METABOLIC DISEASE

**[ALCOHOLISM AND METABOLIC DISEASES]** Vogelberg KH *Dtsch Med Wochenschr* 101: 1199-202, 6 Aug 76 (Ger) [5] \*DL/76NOV48

**ENDOCRINE AND METABOLIC DISEASE. OBESITY.** Munro JF *Br Med J* 1: 388-90, 14 Feb 76 (Eng) \*DL/76NOV447

### METABOLIC DISORDER

**METABOLIC DISORDERS CAUSING COMA AND SHOCK.** PP. 175-85. Taylor AL *In: Fink* JC, ed. *Emergency management of the critical patient. New York, Stratton, 1975. WI EM662H v2* 1975. (Eng) DL/76NOV119

### METABOLIC PATHWAY

**GLUCONEOGENESIS: A TEACHING PATHWAY. CRITERIA TO ESTABLISH A METABOLIC PATHWAY.** Gabrielli F *J Chem Educ* 53: 86-91, Feb 76 (Eng) \*DL/76NOV522

### METABOLIC REGULATOR

**[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES]** Glants RN, Skovronskaya EV, Vovk GP, Mikolishin LI *Bull Eksp Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

### METABOLIC RESPONSE

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

### METABOLISM

**EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS.** Tanabe S, Kameoka K *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV66

**EFFECT OF PROTEIN INGESTION ON SPLANCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS.** Wahren J, Felig P, Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

**[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILCH COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM]** Kirchgessner M, Roth HP, Schwarz WA *Z Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

**KINETIC STUDIES ON THE METABOLISM OF ETHYLmorphine BY ISOLATED HEPATOCYTES FROM ADULT RATS.** Erickson RR, Holtzman JL *Proc Chem Pharmacol* 25: 1501-6, Jul 76 (Eng) DL/76NOV379

**IN VITRO METABOLISM OF RED BLOOD CELLS FROM NEWBORN AND ADULT GOATS.** Agar NS, Harley JD *Biol Neonate* 28: 113-7, 1976 (Eng) \*DL/76NOV444

**RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE.** Kahn SB, Cheung T, Lodise R, Brodsky I *Cancer Res* 36: 1949-9, Jan 76 (Eng) \*DL/76NOV454

**DEPENDENCE ON AGE OF METHAMPHETAMINE-PRODUCED CHANGES IN THERMOREGULATION AND METABOLISM.** Estler JC *Experiencia* 31: 1436-7, 15 Dec 75 (Eng) \*DL/76NOV482

**CAVEAT ON GLUCOSE ANOMERS: MEASUREMENTS AND METABOLISM.** Rossini AA, Soeldner JS *Horm Metab Res* 7: 522-3, Nov 75 (Eng) \*DL/76NOV500

**MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS PRESERVED.** Morrison AD, Berwick L, Orci L, Winegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

**NUTRITION OF GLOSSINA MORSITANS: METABOLISM OF U-14C GLUCOSE DURING PREGNANCY.** Moloo SK *J Insect Physiol* 22: 195-200, 1976 (Eng) \*DL/76NOV531

**THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST.** Scharff TG, Perry AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng) \*DL/76NOV567

**EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK?** O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

**EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS.** Mjos OD *Acta Med Scand [Suppl]* 29: 3-4, 1976 (Eng) \*DL/76NOV613

**FACTORS MODIFYING ISCHEMIC ALTERATIONS OF VENTRICULAR FUNCTION AND METABOLISM IN THE INTACT WORKING SWINE HEART.** Liedtke AJ *Acta Med Scand [Suppl]* 57-64, 1976 (Eng) \*DL/76NOV615

**EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM.** Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

### METABOLISM, ADIPOSE TISSUE

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATIONS INFLUENCE OF ADIPOSE TISSUE METABOLISM.** PP. 30-43. Björntorp P *In: Hautvast JGAJ, et al., ed. Blood and arterial wall in atherosclerosis*

### METABOLISM, CHOLESTEROL

*and arterial thrombosis. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [37] DL/76NOV121*

### METABOLISM, ARTERIAL

**ARTERIAL METABOLISM IN PRIMATES.** Portman OW, Illingworth DR *Primates Med* 9: 145-223, 1976 (Eng) [349] \*DL/76NOV672

### METABOLISM, BASAL

**CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS.** Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

### METABOLISM, CARBOHYDRATE

**EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO.** Packard GC, Randall JG *Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

**CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT.** Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

**[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT]** Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologija* 15: 91-100, Sep 75 (Rus) DL/76NOV152

**ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM.** Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

**[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA]** Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rus) DL/76NOV233

**[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME]** Bogatyrev OP, Tishenina RS, Zenovko EI *Sov Med* 115: 8-Sept 75 (Rus) DL/76NOV249

**RADIOPSIROMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE.** DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) \*DL/76NOV532

**[CARBOHYDRATE METABOLISM OF DIAPAUSING INSECTS (AUTHORS TRANSL)]** Kageyama T, Takahashi SY *Protein Nucleic Acid Enzyme* (Tokyo) 20: 1285-300, Dec 75 (Jpn) [134] \*DL/76NOV570

**CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL BLOOD LYMPHOCYTES.** Apolloni MC, Vasile C, Floridi A, Natali PG *Immunol Commun* 4: 453-63, 1975 (Eng) \*DL/76NOV654

### METABOLISM, CHOLESTEROL

**CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM.** Friedman M, Byers SO *Metabolism* 25: 125-6, Jan 76 (Eng) \*DL/76NOV667

## Diabetes Literature—Keyword Index

### METABOLISM, ENERGY

#### METABOLISM, ENERGY

**PERINATAL ENERGY METABOLISM.** PP. 104-19. Sinclair JC, Warshaw JB *In 0 Hafez ES, ed. The mammalian fetus: comparative biology and methodology. Springfield, Thomas, 1975. WQ 210 M265 1973. (Eng) [21] \*DL/76NOV406*

[CHANGES IN ENERGY METABOLISM IN SEVERE TISSUE TRAUMA] Aarimaa M *Duodecim 91: 1203-12, 1975 (Fin) \*DL/76NOV466*

#### METABOLISM, FATTY ACID

**RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS.** Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl] 9-15, 1976 (Eng) \*DL/76NOV616*

#### METABOLISM, GLUCOSE

**EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM.** Anonymous *Nutr Rev 34: 185-7, Jun 76 (Eng) [9] DL/76NOV191*

**EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO.** Kannula RG *Am J Vet Res 37: 935-8, Aug 76 (Eng) DL/76NOV318*

**EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP.** Prior RL *J Anim Sci 42: 160-7, Jan 76 (Eng) \*DL/76NOV507*

#### METABOLISM, GLYCOGEN

**REGULATION OF GLYCOGEN METABOLISM IN HUMAN BLOOD PLATELETS.** PP. 107-9. Schneider W *In 0 Ulttin ON, ed. Platelets. Amsterdam, Excerpta Medica, 1975. W3 EX89 no. 347 1974. (Eng) \*DL/76NOV410*

[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OOCYTES AND EMBRYOS OF TELEOSTS] Iurovitskii IUG, Milman LS *Biokhimiia 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440*

**ENZYME ACTIVITY DURING THE METABOLISM OF GLYCogen.** I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP *Histochemistry 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506*

#### METABOLISM, LIPID

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tealikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest 57: 875-84, Apr 76 (Eng) DL/76NOV105*

[DIABETES MELLITUS AND LIPID METABOLISM (AUTHORS TRANSL)] Watanabe T *Jpn J Clin Pathol 24: 211-7, Mar 76 (Jpn) DL/76NOV148*

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-**

MATURITY. Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS *Metabolism 25: 865-75, Aug 76 (Eng) DL/76NOV177*

[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189*

[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES] Anonymous *Z Gesamte Inn Med 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275*

**THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR.** Spellacy WN, Buhu WC, Birk SA *Am J Obstet Gynecol 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309*

**EFFECTS OF HALOTHANE ON LIPID METABOLISM IN HUMAN ADIPOSE TISSUE.** PP. 842-5. Dennis J, Smith U *In 0 Arias A et al., ed. Recent progress in anaesthesiology and resuscitation. Amsterdam, Excerpta Medica, 1975. W3 EX89 no. 347 1974. (Eng) \*DL/76NOV389*

**LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE.** Andrew G, Chan G, Schiff D J *Pediatr 88: 273-8, Feb 76 (Eng) \*DL/76NOV535*

**LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO.** Andrew G, Chan G, Schiff D J *Pediatr 88: 279-84, Feb 76 (Eng) \*DL/76NOV536*

**DUAL-LABELED TECHNIQUE FOR HUMAN LIPID METABOLISM STUDIES USING DEUTERATED FATTY ACID ISOMERS.** Emken EA, Rohwedder WK, Dutton HJ *Lipids 11: 135-42, Feb 76 (Eng) \*DL/76NOV548*

#### METABOLISM, MYOCARDIAL

[THE EFFECT OF COLD CARDIOPLEGIA ON MYOCARDIAL METABOLISM] Vainer EN, Kofanova NN *Biol Nauki 43-7, 1975 (Rus) \*DL/76NOV442*

#### METABOLISM, MYOCARDIAL ENERGY

**REGULATION OF MYOCARDIAL ENERGY METABOLISM.** Illingworth JA, Ford WC, Kobayashi K, Williamson JR *Recent Adv Stud Cardiac Struct Metab 8: 271-90, 1975 (Eng) \*DL/76NOV575*

#### METABOLISM, NITROGEN

**EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP.** Prior RL *J Anim Sci 42: 160-7, Jan 76 (Eng) \*DL/76NOV507*

#### METABOLISM, OXIDATIVE

[OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO] Brachet E C *R Soc Biol (Paris) 169: 1077-80, 1975 (Fre) \*DL/76NOV450*

**RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM.** Neely JR,

Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab 8: 301-21, 1975 (Eng) \*DL/76NOV577*

#### METABOLISM, PEPTIDE

**PEPTIDE METABOLISM.** Anonymous *Ciba Found Symp 41: 351-69, 1976 (Eng) DL/76NOV45*

#### METABOLISM, PROTEIN

**MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS.** Millward DJ, Nnanyelugo DO, Bates P, Heard CR *Proc Nutr Soc 35: 47a, May 76 (Eng) DL/76NOV217*

**CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE.** Conev K, Raikova M, Boneva M *Folia Med (Plovdiv) 17: 3-8, 1975 (Eng) \*DL/76NOV494*

#### METABOLISM, SUGAR

**PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES.** Rinaudo MT, Ponsetto C, Curto M, Betta PG *Ital J Biochem 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84*

#### METABOLISM, ZINC

[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILCH COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM] Kirchgesner M, Roth HP, Schwarz WA Z *Tierphysiol 36: 175-9, Feb 76 (Ger) DL/76NOV279*

#### METABOLITE

**SELECTIVE INHIBITION OF ACYL-COA DEHYDROGENASES BY A METABOLITE OF HYPOLYGLYCIN.** Kean EA *Biochim Biophys Acta 422: 8-14, 23 Jan 76 (Eng) \*DL/76NOV432*

**EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP.** Prior RL *J Anim Sci 42: 160-7, Jan 76 (Eng) \*DL/76NOV507*

#### METABOLITE FLUX

**POSSIBLE INTERRELATIONSHIP BETWEEN METABOLITE FLUX AND APPETITE.** PP. 115-25. Sullivan AC, Triscari J *In 0 Novin D et al., ed. Hunger: basic mechanisms and clinical implications. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) \*DL/76NOV407*

#### METABOLIZABLE SUBSTANCE

**THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN.** Pratt OE *Adv Exp Med Biol 69: 55-75, 1976 (Eng) [59] DL/76NOV300*

#### METERGOLINE

**EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOLYCEMIA AND LYSINE-VASOPRESSIN IN MAN.** Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab 43: 306-12, Aug 76 (Eng) DL/76NOV99*

#### METFORMIN

[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN]

## Diabetes Literature—Keyword Index

Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

### METHAMPHETAMINE

DEPENDENCE ON AGE OF METHAMPHETAMINE-PRODUCED CHANGES IN THERMOREGULATION AND METABOLISM. Estler CJ *Experientia* 31: 1436-7, 15 Dec 75 (Eng) \*DL/76NOV482

### METHOD

METHODS OF DIAGNOSING DIABETES MELLITUS. Burgess JA *Aust Fam Physician* 5: 49-52, Jan-Feb 76 (Eng) DL/76NOV342

MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaise WJ *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng) \*DL/76NOV460

[DESCRIPTION OF A METHOD FOR THE DETERMINATION OF GLUCOSE AND ALPHA GLUCOSIDASE] Flores-Carreón A, Ruiz-Herrera J *Rev Lat Am Microbiol* 17: 225-5, Oct-Dec 75 (Spa) \*DL/76NOV518

[EXHALATION DIAGNOSIS WITH C14 TAGGED COMPOUNDS, METHODS AND RESULTS] Lutolf UM, Glanzmann C, Renk IW, Horsch W *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

### 5-METHOXYINDOLE-2-CARBOXYLIC ACID

METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MIICA). Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381

### METIAMIDE

INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METIAMIDE, AN H<sub>2</sub>-B HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

### METOLAZONE

BIOCHEMICAL AND CLINICAL EFFECTS OF METOLAZONE IN CONGESTIVE HEART FAILURE. Levey BA, Palmer RF *Curr Ther Res* 18: 641-51, Nov 75 (Eng) \*DL/76NOV650

### MICROANGIOPATHY, DIABETIC

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbosa J, Noreen H, Emma L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

### MICROCIRCULATION

THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION. Guth PH, Smith E *Gastroenterology* 71: 435-8, Sep 76 (Eng) DL/76NOV61

### MICROCIRCULATORY

EVALUATION OF THE USE OF MICROCIRCULATORY FINDINGS IN THE ANALYSIS OF CLINICAL DISEASE. Redisch W, Rouen LR, Terry EN, Clause RH *Bibl Anat* 13: 362-3, 1975 (Eng) DL/76NOV352

### MICRORHEOLOGICAL

MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS. Volger E, Schmid-Schonbein H, Mehner H *Bibl Anat* 13: 97-8, 1975 (Eng) DL/76NOV357

### MICROSCOPY

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICRORHEOLOGY] Moczar M, Allard R, Ouzilou J, Robert L, Boussou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

### MICROSCOPY, ELECTRON

[IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL] PP. 433-50. Pelletier G *Int Labrie* F, et al., ed. *Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. WI CU82M v.3 1976. (Eng) [23] DL/76NOV126

### MICROSOMAL MEMBRANE PERMEABILITY

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) \*DL/76NOV514

### MICROTUBULAR SYSTEM

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

### MICROTUBULE SUBUNIT

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

### MICROVESSEL

CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS. Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

### MICROVESSEL, BRAIN

ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX. Brendel K, Meezan E, Carlson EC *Science* 185: 953-5, 13 Sept 74 (Eng) \*DL/76NOV584

### MITOCHONDRIA

### MIDDLE AGED WOMAN

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

### MILK YIELD

OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS. Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

### MINIATURIZED CONTINUOUS FLOW ANALYZER

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neesley WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

### MISDIAGNOSED

DIABETIC KETOALKALOSIS: A READILY MISDIAGNOSED ENTITY. Lim KC, Walsh CH *Br Med J* 2: 19, 3 Jul 76 (Eng) DL/76NOV20

### MITOCHONDRIA

CARRIER-MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA. PP. 287-306. Fonyo A, Ligeti E, Palmieri F, Quagliariello E *Int Gardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) DL/76NOV388

FURTHER STUDIES ON THE EFFECT OF PHOSPHOENOLPYRUVATE ON RESPIRATION-DEPENDENT CALCIUM TRANSPORT BY RAT HEART MITOCHONDRIA. Chaudapongse P *Biochim Biophys Acta* 423: 196-202, 16 Feb 76 (Eng) \*DL/76NOV437

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biochimia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

THE BIOENERGETICS OF BROWN ADIPOSE TISSUE MITOCHONDRIA. Nicholls DG *FEBS Lett* 61: 103-110, 15 Jan 76 (Eng) [43] DL/76NOV484

[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA] Neifakh SA, Puchkova LV *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EF-FUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

## Diabetes Literature—Keyword Index

### MITOCHONDRIA, HEART

#### MITOCHONDRIA, HEART

THE UPTAKE AND EXTRUSION OF MONOVALENT CATIONS BY ISOLATED HEART MITOCHONDRIA. Brierley GP *Mol Cell Biochem* 10: 41-63, 31 Jan 76 (Eng) \*DL/76NOV554

#### MITOCHONDRIA, LIVER

[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov Iak, Gainutdinov MKh, Salikhov RS, Gizarullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

REGULATION OF CITRATE TRANSPORT IN RAT LIVER MITOCHONDRIA METABOLIZING PYRUVATE. Stucki JW *FEBS Lett* 61: 171-5, 15 Jan 76 (Eng) \*DL/76NOV486

ATP-DEPENDENT REACTIONS CATALYZED BY INNER MEMBRANE VESICLES OF RAT LIVER MITOCHONDRIA. KINETICS, SUBSTRATE SPECIFICITY, AND BICARBONATE SENSITIVITY. Pedersen PL *J Biol Chem* 251: 934-40, 25 Feb 76 (Eng) \*DL/76NOV516

A MAJOR POLYPEPTIDE COMPONENT OF RAT LIVER MITOCHONDRIA: CARBAMYL PHOSPHATE SYNTHETASE. Clarke S *J Biol Chem* 251: 950-61, 25 Feb 76 (Eng) \*DL/76NOV517

STOICHIOMETRY OF H<sub>2</sub>O EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA<sup>2+</sup> BY RAT LIVER MITOCHONDRIA. Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS] Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

#### MITOCHONDRIA, RAT LIVER

CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE] Khililar M, Uong DS *Biochimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

#### MITOCHONDRIA SHRINKAGE

MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. I. COUPLING BETWEEN WEAK ELECTROLYTE FLUXES. Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 15-26, 15 Jan 76 (Eng) \*DL/76NOV434

MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. II. COUPLING BETWEEN STRONG ELECTROLYTE FLUXES. Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 27-41, 15 Jan 76 (Eng) \*DL/76NOV435

#### MITOCHONDRIAL

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS. Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) \*DL/76NOV363

MITOCHONDRIAL BIOENERGETICS: FACTS AND IDEAS. PP. 257-85. Ernst L *In* Gardos G, Szasz I, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th v.35. (Eng) [157] \*DL/76NOV404

IMPAIRMENT OF MITOCHONDRIAL FATTY ACID OXIDATION BY CHRONIC ETHANOL INGESTION. Anonymous *Nutr Rev* 34: 23-5, Jan 76 (Eng) [10] \*DL/76NOV562

FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haeffner EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

#### MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE

THE ROLE OF LIPID IN REGULATION OF MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE. Bertoli E, Finean JB, Griffiths DE *FEBS Lett* 61: 163-5, 15 Jan 76 (Eng) \*DL/76NOV485

#### MITOCHONDRIAL MEMBRANE

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochim Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Beck DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### MITOCHONDRIAL PHOSPHOLIPID

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Beck DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### MODEL

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

#### MODEL, ALLOSTERIC

INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION. PP. 63-95 Vassileva-Popova JG, Yanev TK *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399

#### MODEL, FLEXOELECTRIC

FLEXOELECTRIC MODEL FOR ACTIVE TRANSPORT. PP. 111-25. Petrov AG *In* Vassileva-Popova JG, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV393

#### MODEL SYSTEM

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Saffran E, Le Magnen J *In* *Colloque Européen de physiologie renale*. Paris, INSERM, 1974. W3 300 E89c 1974. (Eng) \*DL/76NOV401

LIPID-PROTEIN INTERACTION IN MODEL SYSTEMS AND BIOMEMBRANES. PP. 3-16. van Deenen LL *In* Gardos G, Szasz I, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th v.35. (Eng) [49] \*DL/76NOV402

#### MOLECULAR

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

#### MOLECULAR EVOLUTION

MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES. Acher R *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] \*DL/76NOV43

#### MOLECULAR TRANSPORT

MOLECULAR TRANSPORT IN THYROID SLICES. Paiva M, Sande JV, Swillens S, Dumont JE *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) \*DL/76NOV428

#### MONKEY

PROCEEDINGS: ISOLATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS IN RAT AND MONKEY. Ballinger W *Ann R Coll Surg Engl* 58: 327, Jul 76 (Eng) \*DL/76NOV327

ATHEROSCLEROSIS IN RHESUS AND CYNOLOGUS MONKEYS. Armstrong ML *Primates Med* 9: 16-40, 1976 (Eng) [67] \*DL/76NOV673

#### MONKEY, OLD WORLD

ATHEROSCLEROSIS IN OLD WORLD MONKEYS. Clarkson TB, Hamm TE, Bullock BC, Lehner ND *Primates Med* 9: 66-89, 1976 (Eng) \*DL/76NOV676

#### MONKEY, RHESUS

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) \*DL/76NOV205

STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION. Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 159-72, Jan 76 (Eng) \*DL/76NOV524

REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS. Strong JP, Eggen DA, Stary HC *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

#### MONOACYLGLYCEROL HYDROLYZING ENZYME

PURIFICATION AND SOME PROPERTIES OF A MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE. Tornqvist H, Belfrage P *J Biol Chem* 251: 813-9, 10 Feb 76 (Eng) \*DL/76NOV512

## Diabetes Literature—Keyword Index

### MONOAMINE

**ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS.** PP. 243-50. Imura H, Kato Y In *O Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

### MONOCYTE

**INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS.** Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

### MONONUCLEAR LEUKOCYTE

**INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS.** Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

### MONOPHOSPHATE DEHYDROGENASE

**ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT.** Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

### MONOVALENT CATION

**THE UPTAKE AND EXTRUSION OF MONOVALENT CATIONS BY ISOLATED HEART MITOCHONDRIA.** Brierley GP *Mol Cell Biochem* 10: 41-63, 31 Jan 76 (Eng) \*DL/76NOV554

### MORBID OBESITY

**INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY.** Freeman JB, Stegink LD, Witbeck MF, Thompson RG, Danner MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

### MORBIDITY

**DIABETES MELLITUS. A REPORT FROM THE AUSTRALIAN GENERAL PRACTITIONER MORBIDITY AND PRESCRIBING SURVEY 1969-1974.** Dunstone MW *Aust Fam Physician* 5: 479-80, May 76 (Eng) DL/76NOV347

### MORPHINE

**INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT.** Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

**CHANGES IN BLOOD CONSTITUENTS IN RATS ADMINISTERED MORPHINE AND SUBJECTED TO HE-02 AT 11 ATA.** De Boer B, Tofano M *Aviat Space Environ Med* 47: 151-3, Feb 76 (Eng) \*DL/76NOV635

### MORPHOLOGY

**MORPHOLOGY OF ESOPHAGEAL AND GASTRIC MUCOSA IN DIABETICS.** Włodarczyk D *Pol Tyg Lek* 31: 829-32, 17 May 76 (Pol) DL/76NOV210

**MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS**

**PRESERVED.** Morrison AD, Berwick L, Orci L, Winegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

### MORTALITY

**METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA).** Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381

### MOTHER, DIABETIC

**CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS.** Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

### MOTOR

**OESEOPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS.** Stewart IM, Hosking DJ, Preston BJ, Atkinson M *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

### MOTOR UNIT

**SINGLE FIBRE ELECTROMYOGRAPHY FOR MOTOR UNIT STUDY IN MAN.** PP. 79-92. Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In* Shahani M, ed. *The motor system: neurophysiology and muscle mechanisms*. Amsterdam, Elsevier, 1976. WE 102 M919 1974. (Eng) DL/76NOV130

### MOUSE

**EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART.** Clark CM Jr *Endocrinology* 99: 23-9, Jul 76 (Eng) DL/76NOV52

**PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM.** Atwater J, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

**EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99mTC PERTECHNETATE IN MICE.** Khettry J, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

**LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE.** Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

**TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM.** Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

**EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS.** Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

### MOUSE, AKR

**RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE.** Kahn SB, Cheung T, Lodise R, Brodsky I *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

### MOUSE, AVY A

**AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESIVE MICE (AVY/A).** Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

### MOUSE, OBESIVE HYPERGLYCEMIC

**DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESIVE HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 180-6, 1975 (Eng) DL/76NOV80

### MOUSE, YELLOW OBESIVE

**AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESIVE MICE (AVY/A).** Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

### MUCORMYCOSIS

**[A CASE OF MUCORMYCOSIS]** Daele JJ, De Vos JL *Acta Otorhinolaryngol Belg* 29: 1030-40, 1975 (Fre) DL/76NOV294

### MUCOSA

**[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL AT THE RAT (AUTHORS TRANSL)]** Merkle P, Bindewald H, Breitig D *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546

### MUCOSA, GASTRIC

**[MORPHOLOGY OF ESOPHAGEAL AND GASTRIC MUCOSA IN DIABETICS]** Włodarczyk D *Pol Tyg Lek* 31: 829-32, 17 May 76 (Pol) DL/76NOV210

### MUCOSAL

**THE EFFECTS OF REMOVAL OF SODIUM IONS FROM THE MUCOSAL SOLUTION ON SUGAR ABSORPTION BY RABBIT ILEUM.** Nutall RJ, Holman GD *Biochim Biophys Acta* 419: 385-90, 21 Jan 76 (Eng) \*DL/76NOV429

### MULTIPLE MYELOMA

**[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA]** Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

### MUSCLE

**GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT.** Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

**MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS.** Millward DJ, Nanyellega DO, Bates P, Heard CR *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

**A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING**

## Diabetes Literature—Keyword Index

### MUSCLE PROTEIN SYNTHESIS

RAT. Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM. Tsokos JO, Bloom S *Biochim Biophys Acta* 423: 42-51, 15 Jan 76 (Eng) \*DL/76NOV436

### MUSCLE PROTEIN SYNTHESIS

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

### MUSCLE, SKELETAL

PHOSPHOFRUCTOKINASE AND SUCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE. Iannuzzi CD, Armstrong RB *Horm Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV78

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

### MUSCULAR ACTIVITY

[THE RELATIONSHIP BETWEEN PRE-EXERCITIONAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY] Krasnava AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol Z SSSR* 61: 530-6, Apr 75 (Rus) \*DL/76NOV489

### MUSCULAR EXERCISE

ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT. Feder-spil G, Udeschini G, De Palo C, Siculo N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

### MUSCULAR FUEL

ON THE MUSCULAR FUEL OF THE AIR SAC IN AN AIR BREATHING FISH. Thakur RN, Singh BR *Acta Histochem (Jena)* 54: 322-7, 1975 (Eng) \*DL/76NOV605

### MUSCULAR LOAD

[EFFECT OF SODIUM SELENITE ON THE RATE OF GLYCOLYSIS UNDER AN INTENSIVE MUSCULAR LOAD] PP. 94-5. Karaev MA, Gasanov GG *Ino Gasanov GG*, ed. Selen v biologii. Baku, Elm, 1974. QV 618 5464 1974. (Rus) \*DL/76NOV384

### MUTANT

MUTANT OF *ESCHERICHIA COLI* DEFECTIVE IN RESPONSE TO COLICIN K AND IN ACTIVE TRANSPORT. Plate CA *J Bacteriol* 125: 467-74, Feb 76 (Eng) \*DL/76NOV658

### MYELOMA, MULTIPLE

[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA] Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

### MYOBLAST

EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS. Gospodarowicz D, Weseman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

### MYOCARDIAL

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjos OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

DEPENDENCE OF MYOCARDIAL REDOX SYSTEMS ON THE CONCENTRATION OF EXOGENOUS SUBSTRATE. Moravec J, Corsin A, Hata PY *Recent Adv Stud Cardiac Struct Metab* 8: 167-77, 1975 (Eng) \*DL/76NOV574

THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS. Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS. Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

### MYOCARDIAL CELL

TRANSFER OF [1-(14)C] PALMITATE BETWEEN MYOCARDIAL CELL FRACTIONS. Fields M, Gloster J, Harris P *J Mol Cell Cardiol* 7: 907-16, Dec 75 (Eng) \*DL/76NOV664

### MYOCARDIAL CONTRACTILITY

EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM. Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

### MYOCARDIAL ENERGY METABOLISM

REGULATION OF MYOCARDIAL ENERGY METABOLISM. Illingworth JA, Ford WC, Kobayashi K, Williamson JR *Recent Adv Stud Cardiac Struct Metab* 8: 271-90, 1975 (Eng) \*DL/76NOV575

### MYOCARDIAL INFARCTION

[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT] Rylova AK *Kardiologija* 15: 100-3, Sep 75 (Rus) DL/76NOV150

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganov RG, Aleksandrova AA, Vinogradova NV, Korochkin IM *Kardiologija* 15: 91-100, Sep 75 (Rus) DL/76NOV152

[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT] Kozlowski W *Pol Arch Med Wewn* 56: 45-54, Jul 76 (Pol) DL/76NOV207

[CONCOMITANT DISEASES IN MACROFOCAL MYOCARDIAL INFARCT] Danish Gla, Guseva NP *Vrach Delo* 72-6, Dec 75 (Rus) DL/76NOV269

[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPEMIA (AUTHORS TRANSL)] Oravec D, Moravec R *Bratisl Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION. Vanhaelst L, Degaute JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV501

### MYOCARDIAL ISCHEMIA

CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

EFFECTS OF LIPOLYTIC AND INOTROPIC STIMULATION ON MYOCARDIAL ISCHEMIC INJURY. Kjekshus JK *Acta Med Scand [Suppl]* 35-42, 1976 (Eng) \*DL/76NOV614

### MYOCARDIAL METABOLISM

[THE EFFECT OF COLD CARDIOPLEGIA ON MYOCARDIAL METABOLISM] Vainer EN, Kofanova NN *Biol Nauki* 43-7, 1975 (Rus) \*DL/76NOV442

### MYOCARDIAL PROTEIN

EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS. Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117-23, 1976 (Eng) \*DL/76NOV611

### MYOCARDIAL PROTEIN SYNTHESIS

MECHANISM OF THE INHIBITION OF MYOCARDIAL PROTEIN SYNTHESIS DURING OXYGEN DEPRIVATION. Lesch M, Taegtmeyer H, Peterson MB, Vernick R *Am J Physiol* 230: 120-6, Jan 76 (Eng) \*DL/76NOV621

### MYOCARDIAL SUBSTRATE UTILIZATION

MYOCARDIAL SUBSTRATE UTILIZATION IN ANAEROLYTIC SHOCK. Spitzer JJ *Proc Soc Exp Biol Med* 151: 28-31, Jan 76 (Eng) \*DL/76NOV566

### MYOCARDIAL WEIGHT

THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER FRACTION IN RATS. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng) \*DL/76NOV579

### NATURAL HISTORY DIABETES

NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS. Goto Y, Toyota T, Masuda M, Komatsu K, Kuriki A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

### NECROSIS

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkula J, Pejchlova M,

## Diabetes Literature—Keyword Index

### NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY

Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

#### NECROSIS, CARDIAC

THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS. Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

#### NEONATAL

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biervliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* I: 594, 13 Mar 76 (Eng) \*DL/76NOV545

#### NEONATAL HYPOGLYCEMIA

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Lehyl T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

#### NEONATE

GLUCOSE ASSIMILATION IN NEONATES. PP. 165-81. Salle B, Chance GW, Ruitton-Ugliengo M, Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlik H *In Situ Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis, Green, 1975. WS 27.1 S989n 1972* (Eng) DL/76NOV131

[HYPOGLYCEMIA IN NEONATES FOLLOWING EXCHANGE TRANSFUSION (AUTHORS TRANSL)] Herwe S *Monatschr Kinderheilkd* 124: 548-50, Jul 76 (Eng) DL/76NOV178

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chan G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

#### NEOPLASM

[CATAMINISTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS] Bock R, Wieczorek V, Dachsel R *Z Aerztl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

#### NEPHROGENOUS HYPERTENSION

GROWTH HORMONE IN CARDIAC HYPERTHYROIDY INDUCED BY NEPHROGENOUS HYPERTENSION. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578

#### NEPHROLOGY

[ADVANCES IN NEPHROLOGY. KIDNEY FAILURE IN PATIENTS WITH DIABETES MELLITUS] Sicinski A *Pol Arch Med Wewn* 56: 81-91, Jul 76 (Pol) DL/76NOV208

#### NEPHROPATHY, DIABETIC

[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION] Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164

#### NEPHROTIC SYNDROME

NEPHROTIC SYNDROME: ETIOLOGY, DIAGNOSIS, AND TREATMENT. Finkelstein FO, Haylett JP *Geriatrics* 31: 39-44, 48, AUG 76 (Eng) [46] DL/76NOV66

#### NERVE DISCHARGE

PROCEEDINGS: EFFECT OF ACTIVELY TRANSPORTED HEXOSSES ON AFFERENT NERVE DISCHARGE FROM RAT SMALL INTESTINE IN VIVO. Sanford PA *J Physiol (Lond)* 254: 75P-76P, Jan 76 (Eng) \*DL/76NOV539

#### NERVOUS SYSTEM

THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES). Strand FL *Bioscience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

#### NEURAL CREST

AN EXPERIMENTAL INVESTIGATION INTO THE POSSIBLE NEURAL CREST ORIGIN OF PANCREATIC APUD (ISLET) CELLS. Andrew A *J Embryol Exp Morphol* 35: 577-93, Jun 76 (Eng) DL/76NOV135

#### NEUROLEPTIC DRUG

COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLYL CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON. Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) DL/76NOV380

#### NEURON, SOMATOSTATINERGIC

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Albert JC, Brower JR, Patel YC, Reichlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

#### NEUROPATHY

DIABETIC NEUROPATHY: CLINICAL MANIFESTATIONS, DIAGNOSIS, AND MANAGEMENT. Lovrien F, Shipp JC *Nebr Med J* 61: 218-22, Jul 76 (Eng) DL/76NOV186

#### NEUROSECRETORY SYSTEM

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETORY SYSTEM. Tager HS, Markes J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

#### NEUROSPORA CRASSA

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Beck DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY

#### NEUROTRANSMITTER

MEMBRANE RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS. Kahn CR *J Cell Biol* 70: 261-86, Aug 76 (Eng) DL/76NOV89

#### NEWBORN

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freyss E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

IN VITRO METABOLISM OF RED BLOOD CELLS FROM NEWBORN AND ADULT GOATS. Agar NS, Harley JD *Biol Neonate* 28: 113-7, 1976 (Eng) \*DL/76NOV444

HUMAN NEWBORNS DIFFERENTIATE DIFFERENT CONCENTRATIONS OF SUCROSE AND GLUCOSE. Nowlin GH, Kessen W *Science* 191: 865-6, 27 Feb 76 (Eng) \*DL/76NOV587

GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN. Giordano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kbh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604

#### NICOTINE

THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT. Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

#### NITROGEN BALANCE

[THE EFFECTS OF ARGININE AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsaer J, Poey J, Bakiri F, Reggabi M, Benouniche M, Rahal M *Biomedicine (Express)* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

#### NITROGEN, BODY

STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

#### NITROGEN METABOLISM

EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP. Prior RL *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

#### NONELECTROLYTE DIFFUSION

NONELECTROLYTE DIFFUSION ACROSS LIPID BILAYER SYSTEMS. Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng) \*DL/76NOV661

#### NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY

INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

## Diabetes Literature—Keyword Index

### NORADRENALINE

#### NORADRENALINE

COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLYLATE CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON. Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) \*DL/76NOV380

#### NORADRENALINE STIMULATED LIPOLYSIS

[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

#### NORGESTREL

THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spellacy WN, Buhri WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

#### NUCLEOSIDE

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

#### NUCLEOTIDE

CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE. Schilin J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

#### NUTRITION

SEPTIC COMPLICATIONS OF TOTAL PARENTERAL NUTRITION. A FIVE YEAR EXPERIENCE. Sanders RA, Sheldon GF *Am J Surg* 132: 214-20, Aug 76 (Eng) DL/76NOV314

NUTRITION OF GLOSSINA MORSITANS: METABOLISM OF U-14C GLUCOSE DURING PREGNANCY. Moloo SK *J Insect Physiol* 22: 195-200, 1976 (Eng) \*DL/76NOV531

METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE. Jeejeebhoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliss EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

#### NUTRITIONAL SUPPLEMENT

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

TASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

#### OBESITY

NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESIVE AND NONOBESIVE DIABETICS. Belfiore F, LoVecchio L, Borzi V *Metabolism* 25: 723-5, JUL 76 (Eng) \*DL/76NOV173

[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESIVE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION] Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESIVE MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

#### OBESIVE DIABETIC PATIENT

PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESIVE DIABETIC PATIENTS. Kesson CM, Ireland JT *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

#### OBESIVE, GENETICALLY

EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBESIVE RATS. Koletsky S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

#### OBESIVE HYPERGLYCEMIC MOUSE

DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESIVE HYPERGLYCEMIC MICE. Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1973 (Eng) DL/76NOV80

PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESIVE HYPERGLYCEMIC MICE. Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

#### OBESIVE MOUSE

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESIVE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

#### OBESIVE ZUCKER RAT

MAINTENANCE REQUIREMENT AND ENERGETIC EFFICIENCY OF LEAN AND OBESIVE ZUCKER RATS. Deb S, Martin RJ, Hershberger TV *J Nutr* 106: 191-7, Feb 76 (Eng) \*DL/76NOV533

#### OBESITY

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable

YELLOW OBESIVE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES. Olefsky JM *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

ENDOCRINE AND METABOLIC DISEASE. OBESITY. Munro JF *Br Med J* 1: 388-90, 14 Feb 76 (Eng) \*DL/76NOV447

[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Witting MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY] Opitz K *Med Monatsschr* 29: 530-4, Dec 75 (Ger) \*DL/76NOV668

#### OBESITY, GENETIC

EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITHEC RATS TO AUTONOMIC AGENTS. Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

#### OBESITY, HYPERPLASTIC

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L *Scand J Rehabil Med 1-38*, 1976 (Eng) DL/76NOV243

#### OCCLUSION

[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL OF THE RAT (AUTHORS TRANSL)] Merkle P, Bindewald H, Breitig D *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546

#### OCCLUSION, CORONARY

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjos OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

#### OCCLUSION, CORONARY ARTERY

EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS. Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

## Diabetes Literature—Keyword Index

### OTITIS

#### OCCLUSIVE VASCULAR DISEASE

LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

#### OLD AGE

CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE. Conev K, Raikova M, Boneva M *Folia Med (Plovdiv)* 17: 3-8, 1975 (Eng) \*DL/76NOV494

#### OLEIC ACID

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennmalm A *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

#### OLIGOSACCHARIDE

[ORAL GLUCOSE TOLERANCE TEST WITH A MIXTURE OF OLIGOSACCHARIDES AFTER PARTIAL GASTRECTOMY (AUTHORS TRANSL)] Wepler R, Rommel K *Klin Wochenschr* 54: 633-5, 1 Jul 76 (Ger) DL/76NOV154

#### OOCYTE

[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OOCYTES AND EMBRYOS OF TELEOSTS] Iurovskii IUG, Milman LS *Biokhimiia* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440

#### OPHTHALMOPATHY

THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY. Zaretskaiia RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV197

#### OPTIC ATROPHY

RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS. Page MM, Asmal AC, Edwards CR *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

#### OPTIC DISC

EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC. Apple DJ, Wyhinny GJ, Goldberg MF, Polley EH *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

#### ORAL

ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS. Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS. Schiott CR, Loe H, Brine WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) DL/76NOV140

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

#### ORAL ADMINISTRATION

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

#### ORAL ANTI DIABETICS

[ORAL ANTI-DIABETICS—DANGEROUS DRUGS FOR DIABETICS] Jervell J *Tidsskr Nor Laegeforen* 96: 1149, 10 Aug 76 (Nor) DL/76NOV256

#### ORAL ANTIDIABETIC DRUG

HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE? Breidahl HD *Aust Fam Physician* 5: 445-51, May 76 (Eng) DL/76NOV345

#### ORAL CONTRACEPTIVE

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyon M, Dusitis N, Poshyachinda V, Larson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

#### ORAL GLUCOSE LOAD

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco G, Gherlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

#### ORAL GLUCOSE TOLERANCE

ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS. Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

#### ORAL GLUCOSE TOLERANCE TEST

[ORAL GLUCOSE TOLERANCE TEST WITH A MIXTURE OF OLIGOSACCHARIDES AFTER PARTIAL GASTRECTOMY (AUTHORS TRANSL)] Wepler R, Rommel K *Klin Wochenschr* 54: 633-5, 1 Jul 76 (Ger) DL/76NOV157

#### ORAL HYPOGLYCEMIC AGENT

[COMBINATION OF ORAL HYPOGLYCEMIC AGENTS] Decoulx M *Lille Med* 21 spec no: 263-5, 1976 (Fre) DL/76NOV170

#### ORGAN, TUBEROUS

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizon JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

#### ORGANIC HYPERINSULINISM

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

#### ORGANISM

[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILCH COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM] Kirchgesner M, Roth HP, Schwarz WA Z *Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

#### OSCILLATORY

ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION. PP. 43-52. Vassileva-Popova JG, Alexandrov A, Kotarov M *In 0 Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p.* (Eng) \*DL/76NOV387

#### OSMOLALITY

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis 21: 563-8, Jul 76* (Eng) DL/76NOV306

#### OSMOTIC RESISTANCE

OSMOTIC RESISTANCE OF LEUKOCYTES IN PATIENTS WITH ONSET OF DIABETES BEFORE TWENTY-FIVE YEARS. Marigo S, Bersezio A *Acta Diabetol Lat* 12: 289-95, Sep-Dec 75 (Eng) DL/76NOV284

#### OSMOTIC TRANSIENT TECHNIQUE

FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE. Palm T, Nielsen SL, Lassen NA, Sander EH *Bibl Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

#### OSTEOMALACIA, HYPOPHOSPHATAEMIC

HYPOPHOSPHATAEMIC OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS. Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng) DL/76NOV225

#### OSTEOPOROSIS

[LETTER: OSTEOPOROSIS—CAUSED BY DECREASED BLOOD CIRCULATION IN THE BONES] Krokowski E, Fricke M *Z Orthop* 114: 430-1, Jun 76 (Ger) DL/76NOV278

#### OTITIS

MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS. Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

## Diabetes Literature—Keyword Index

### OVERWEIGHT PATIENT

#### OVERWEIGHT PATIENT

THE OVERWEIGHT PATIENT. Bray GA *Adv Intern Med* 21: 267-308, 1976 (Eng) [100] \*DL/76NOV618

#### OXAMINIC ACID

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFONILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhantemirova TS, Bannyi IP, Petunin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) DL/76NOV57

#### OXIDASE, GLUCOSE

[MODIFICATION OF THE FERROCYANIDE VERSION OF THE GLUCOSE OXIDASE METHOD FOR MEASURING GLUCOSE] Afanasyeva GA, Shcherbukhin VD *Prikl Biokhim Mikrobiol* 11: 460-2, May-Jun 75 (Rus) \*DL/76NOV671

#### OXIDATION

[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOsis. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS] Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPHERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE] Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

#### OXIDATION, CARBON

EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERUL. Kaplan BS, Renaud L, Drummond KM *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

#### OXIDATION, FATTY ACID

IMPAIRMENT OF MITOCHONDRIAL FATTY ACID OXIDATION BY CHRONIC ETHANOL INGESTION. Anonymous *Nutr Rev* 34: 23-5, Jan 76 (Eng) [10] \*DL/76NOV562

#### OXIDATION, GLUCOSE

THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES. Olefsky JM *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

#### OXIDATIVE METABOLISM

[OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO] Brachet E C *R Soc Biol (Paris)* 169: 1077-80, 1975 (Fre) \*DL/76NOV450

RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM. Neely JR,

Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

#### OXIDATIVE PHOSPHORYLATION

[OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Becl DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### OXYGEN

THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY. Zaretskaya RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV17

#### OXYGEN CONSUMPTION

[OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO] Brachet E C *R Soc Biol (Paris)* 169: 1077-80, 1975 (Fre) \*DL/76NOV450

#### OXYGEN DEPRIVATION

MECHANISM OF THE INHIBITION OF MYOCARDIAL PROTEIN SYNTHESIS DURING OXYGEN DEPRIVATION. Lesch M, Taegtmeyer H, Peterson MB, Vernick R *Am J Physiol* 230: 120-6, Jan 76 (Eng) \*DL/76NOV621

#### OXYGEN UPTAKE

HYDROGEN ION CONCENTRATION AND OXYGEN UPTAKE IN AN ISOLATED CANINE HINDLIMB. Harken AH *J Appl Physiol* 40: 1-5, Jan 76 (Eng) \*DL/76NOV508

#### OXYTOCIN

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMATURITY. Kashyap ML, Sivasamboo R, Sotthi SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 385-412, Jul 76 (Eng) DL/76NOV193

#### PAIN

PROCEEDINGS: EFFECT OF GLUCAGON ON PAIN IN ACUTE PANCREATITIS. Waterworth TA, Bevan PG *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV325

#### PAINFUL

LETTER: PAINFUL TEETH AND DYSGLYCEMIA. Ringsdorf WM Jr, Cheraskin E *JAMA* 231: 23-4, 6 Jan 75 (Eng) \*DL/76NOV541

#### PALMITATE

TRANSFER OF [(14)C] PALMITATE BETWEEN MYOCARDIAL CELL FRACtIONS. Fields M, Closter J, Harris P *J Mol Cell Cardiol* 7: 907-16, Dec 75 (Eng) \*DL/76NOV64

#### PANCREAS

IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA. Hollande E, Giron B, Leyh T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

ISLET CELL TUMORS OF THE PANCREAS. PP. 183-7. Selawy HP *In0 Charyulu KK, Sudaranan A, ed. Hormones and cancer*. New York, Stratton, 1976. W3 Cl62GS 1975h. (Eng) DL/76NOV116

#### PANCREAS, CANCER

[CANCER OF THE PANCREAS. EPIDEMIOLOGY AND EXPERIMENTAL CARCINOGENESIS] Pelfrene AF *Arch Fr Mal App Dig* 65: 161-8, Mar 76 (Fre) [46] DL/76NOV334

#### PANCREAS, ENDOCRINE

[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS] Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Buttrini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

SOMATOSTATIN AND THE ENDOCRINE PANCREAS. PP. 127-43. Gerich JE *In0 Labrie F, et al., ed. Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) [55] DL/76NOV127

#### PANCREAS, PERFUSED

THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT. Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Tamai T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

#### PANCREATECTOMY, PARTIAL

[ISOENZYME OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY] Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

#### PANCREATIC

AN EXPERIMENTAL INVESTIGATION INTO THE POSSIBLE NEURAL CREST ORIGIN OF PANCREATIC APUD (ISLET) CELLS. Andrew A *J Embryol Exp Morphol* 35: 577-93, Jun 76 (Eng) DL/76NOV135

SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS. Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC

## Diabetes Literature—Keyword Index

### PAROXYSMAL NOCTURNAL HEMOGLOBINURIA

*Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus)  
[105] DL/76NOV202

### PARALYSIS

A NEW STANDARDIZED AND EFFECTIVE METHOD OF INDUCING PARALYSIS WITHOUT ADMINISTRATION OF EXOGENOUS HORMONE IN PATIENTS WITH FAMILIAL PERIODIC PARALYSIS. Johsens T *Acta Neurol Scand* 54: 167-72, Aug 76 (Eng) DL/76NOV292

### PARATHYROID HORMONE

DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYTIC ACTION OF PARATHYROID HORMONE. Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Deltos LJ, Lorenzi M, Bohanon N, Tsakalakis E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

ON THE LIPOLYTIC ACTION OF PARATHYROID HORMONE IN MAN. Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION. Beck N, Webster SK *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

### PARENTERAL FEEDING

[FUNDAMENTALS OF PARENTERAL FEEDING IN INTERNAL DISEASES] Trubenstein G, Kikis D *Infusionstherapie* 2: 450-5, Dec 75 (Ger) \*DL/76NOV655

### PARENTERAL GLUCOSE

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biervliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* I: 594, 13 Mar 76 (Eng) \*DL/76NOV545

### PARENTERAL NUTRITION, TOTAL

SEPTIC COMPLICATIONS OF TOTAL PARENTERAL NUTRITION. A FIVE YEAR EXPERIENCE. Sanders RA, Sheldon GF *Am J Surg* 132: 214-20, Aug 76 (Eng) DL/76NOV314

METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE. Jeejeebhoy KN, Anderson GH, Nakhoda AF, Greenberg GR, Sanderson I, Marliss EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

### PAROTID GLAND

STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF STENONS DUCT. Orelenco MA, Kolesnikov RN *Stomatologija (Mosk)* 54: 85-6, May-Jun 75 (Rus) \*DL/76NOV593

### PAROXYSMAL NOCTURNAL HEMOGLOBINURIA

[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HAEMOGLOBINURIA (AUTHORS TRANSL)] Angulo P, Fernandez J, Lasierro J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM. Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

### PANCREATIC ACINAR CELL

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

### PANCREATIC ALLOGRAFT

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blomme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

### PANCREATIC BETA CELL

PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM. Attwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

### PANCREATIC, BIG GLUCAGON

THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON. O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

### PANCREATIC GLUCAGON

STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA). O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

### PANCREATIC INSULOMA

[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT] Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

### PANCREATIC ISLET

[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN] Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 May 76 (Ita) DL/76NOV44

PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO. Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

EFFECT OF HEXOSSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhlike H, Steiner DF, Lernmark A, Lipsky C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

DISTRIBUTION OF LABELLED STREPTOZOTOCIN IN MICE: UPTAKE AND RETENTION IN PANCREATIC ISLETS. Tjalve H, Wilander E, Johansson EB *J Endocrinol* 69: 455-6, Jun 76 (Eng) DL/76NOV134

[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL)] Violante A, Nardoni C, Lenza G *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE. Sehili J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaisse WJ *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

### PANCREATIC ISLET, FISH

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

### PANCREATIC TRANSPLANTATION

PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arne P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

### PANCREATITIS

EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG. Mahaffey MB, Anderson NV *Am J Vet Res* 37: 947-52, Aug 76 (Eng) DL/76NOV319

PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY. Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

### PANCREATITIS, ACUTE

[DIABETIC COMA ASSOCIATED WITH ACUTE PANCREATITIS] Ticlete I, Fekete T *Rev Med Intern* [Med Intern] 28: 211-6, May-Jun 76 (Rum) DL/76NOV232

PROCEEDINGS: EFFECT OF GLUCAGON ON PAIN IN ACUTE PANCREATITIS. Waterworth TA, Bevan PG *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV325

PROCEEDINGS: OBSERVATIONS ON ACUTE PANCREATITIS. Williamson RC *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV326

### PARAENDOCRINE SYNDROME

[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH] Kashulina AP, Tereshchenko IP

## Diabetes Literature—Keyword Index

### PATHOGENESIS

#### PATHOGENESIS

[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH] Kashulina AP, Tereshchenko IP *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

[PATHOGENESIS OF DISORDERS OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSES] Moskvichev AM, Shlimovich PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

#### PENTAGASTRIN

EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99MTC PERTECHNETATE IN MICE. Khettry J, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

#### PEPSIN SECRETION

INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METAMIDE, AN H<sub>2</sub>-HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

#### PEPTIDE

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV296

COVALENT CHROMATOGRAPHY - THE ISOLATION OF TRYPTOPHANYL CONTAINING PEPTIDES BY NOVEL POLYMERIC REAGENTS. Rubinstein M, Shechter Y, Patchornik A *Biochem Biophys Res Commun* 70: 1257-63, 21 Jun 76 (Eng) DL/76NOV377

STUDIES ON PEPTIDES. LVI. SYNTHESIS OF NI-TYR-SOMATOSTATIN. Fujii N, Yajima H *Chem Pharm Bull (Tokyo)* 23: 2446-9, Oct 75 (Eng) \*DL/76NOV456

#### PEPTIDE HORMONE

GROWTH-PROMOTING ACTIONS OF PEPTIDE HORMONES. Tata JR *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] DL/76NOV42

#### PEPTIDE METABOLISM

PEPTIDE METABOLISM. Anonymous *Ciba Found Symp* 41: 351-69, 1976 (Eng) DL/76NOV45

#### PEPTIDE PV

EFFECTS OF PEPTIDE PV AND RELATED COMPOUNDS ON THE IONIC PERMEABILITY OF LIPID BILAYER MEMBRANES. pp. 157-66. Tosteson DC *In 0 Gardos G, Szasz I, ed. Biomembranes: structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng)* \*DL/76NOV390

#### PEPTIDE, VASOACTIVE INTESTINAL

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV297

### PERFUSED LIVER

RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS. Terris S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whitton PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

### PERFUSED PANCREAS

THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT. Lenzen S, Joos HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

### PERFUSED RAT HEART

CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER. Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

ADENOSINE 3,5-CYCLOC MONOPHOSPHATE IN PERFUSED RAT HEARTS EXPOSED TO ISOPRENALINE AND DOPAMINE. Osnes JB, Oye I *Acta Physiol Scand* 96: 100-13, Jan 76 (Eng) \*DL/76NOV607

### PERFUSED RAT PANCREAS

POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

### PERINATAL

PERINATAL ENERGY METABOLISM. pp. 104-19. Sinclair JC, Warshaw JB *In 0 Hafez ES, ed. The mammalian fetus: comparative biology and methodology. Springfield, Thomas, 1975. WQ 210 M265 1973. (Eng)* [21] \*DL/76NOV406

### PERIODONTAL

[ANIMAL EXPERIMENTAL STUDIES ON PERIODONTAL CHANGES IN ALLOXAN DIABETES] Bienengraber V, Tillmann K *Zahn Mund Kieferheilkd* 64: 260-6, 1976 (Eng) DL/76NOV280

### PERITONEAL DIALYSIS

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

### PERMEABILITY

IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM. Kafka MS, Holz RW *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) \*DL/76NOV514

MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES. Schreier-Muccillo S, Marsh D, Smith IC *Arch Bioch Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

### PERMEABILITY, FILTRATION

FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE. Palm T, Nielsen SL, Lassen NA, Sander EH *Bibl Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

### PERMEABILITY, IONIC

EFFECTS OF PEPTIDE PV AND RELATED COMPOUNDS ON THE IONIC PERMEABILITY OF LIPID BILAYER MEMBRANES. pp. 157-66. Tosteson DC *In 0 Gardos G, Szasz I, ed. Biomembranes: structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng)* \*DL/76NOV390

### PERSONALITY DEVELOPMENT

[EFFECT OF DIABETES MELLITUS ON A PERSONALITY DEVELOPMENT DISORDER - AND ITS INFLUENCE ON THE COURSE OF THE DISEASE] Schweitzer T *Z Klin Psychol Psychother* 24: 68-75, 1976 (Ger) DL/76NOV276

### PHARMACOTHERAPEUTIC

[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY] Opitz K *K Med Monatsschr* 29: 530-4, Dec 75 (Ger) \*DL/76NOV668

### PHENFORMIN

PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESE DIABETIC PATIENTS. Kesson CM, Ireland JT *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY. Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

### PHEOCHROMOCYTOMA

[PROVOCATION TESTS IN PHEOCHROMOCYTOMA] Muhlhoff G, Sack H *Med Welt* 27: 1179-81, 11 Jun 76 (Ger) DL/76NOV172

### PHOSPHATASE, ALKALINE

[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY] Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

## Diabetes Literature—Keyword Index

### PIMA INDIAN

#### PHOSPHATE

THE MODE OF ACTION OF ADENOSINE 3:5-CYCLOC PHOSPHATE IN THE REGULATION OF INSULIN SECRETION. Montague W, Howell SL. *Ciba Found Symp* 41: 141-58, 1976 (Eng) \*DL/76NOV38

OBSEVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN. Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH. *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

CARRIER-MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA. PP. 287-306. Fonyo A, Ligeti E, Palmieri F, Quagliariello E. In *Gardos G, Szasz I, ed. Biomembrane structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV388

CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE. Khililar M, Uong DS. *Biokhimiia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC. *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) \*DL/76NOV514

#### PHOSPHATE SYNTHETASE

A MAJOR POLYPEPTIDE COMPONENT OF RAT LIVER MITOCHONDRIA: CARBONYL PHOSPHATE SYNTHETASE. Clarke S. *J Biol Chem* 251: 950-61, 25 Feb 76 (Eng) \*DL/76NOV517

#### PHOSPHATIDYLCHOLINE

THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA. *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

#### PHOSPHOENOLPYRUVATE

FURTHER STUDIES ON THE EFFECT OF PHOSPHOENOLPYRUVATE ON RESPIRATION-DEPENDENT CALCIUM TRANSPORT BY RAT HEART MITOCHONDRIA. Carbapongse P. *Biochim Biophys Acta* 423: 196-202, 16 Feb 76 (Eng) \*DL/76NOV437

REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN *ESCHERICHIA COLI*. Saier MH Jr, Feucht BU, Hofstatter LJ. *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

#### PHOSPHOENOLPYRUVATE TRANSPORT

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AL. *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

#### PHOSPHOFRUCTOKINASE

PHOSPHOFRUCTOKINASE AND SUCCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE. Iannuzzo CD, Armstrong RB. *Horm Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV78

#### PHOSPHOLIPID

PHOSPHOLIPID EXCHANGE BETWEEN BILAYER MEMBRANE VESICLES. Martin FJ, MacDonald RC. *Biochemistry* 15: 321-7, 27 Jan 76 (Eng) \*DL/76NOV423

LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES. Stoffel W, Michaelis G. *Hoppe Seylers Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

#### PHOSPHOLIPID, MITOCHONDRIAL

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN *NEUROSPORA CRASSA* DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Beck DP, Greenawalt JW J. *Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### PHOSPHOLIPID VESICLE

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A. *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

#### PHOSPHORUS, INORGANIC

[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANS)] Durand D, Prelot M, Raoul Y. *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483

#### PHOSPHORYLASE

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP. *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

#### PHOSPHORYLASE KINASE

CA2+-DEPENDENT ACTIVATION OF PHOSPHORYLASE BY PHOSPHORYLASE KINASE IN ADIPOSE TISSUE. Khoo JC. *Biochim Biophys Acta* 422: 87-97, 23 Jan 76 (Eng) \*DL/76NOV433

#### PHOSPHORYLATION

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS. Siess EA, Wieland OH. *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N. *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN *NEUROSPORA CRASSA* DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS. Beck DP, Greenawalt JW J. *Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

#### PHOSPHORYLATION, PROTEIN

PROTEIN PHOSPHORYLATION AND HORMONE ACTION. Cohen P, Antoniw JF, Nimmo HG, Yeaman SJ. *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41

#### PHOSPHOTRANSFERASE SYSTEM

REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN *ESCHERICHIA COLI*. Saier MH Jr, Feucht BU, Hofstatter LJ. *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

#### PHOTOCOAGULATION, ARGON LASER

EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC. Apple DJ, Wyhinn GJ, Goldberg MF, Polley EH. *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

#### PHOTOMETRIC DETERMINATION

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schönbein H, Kline KA, Volger E. *Biol Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

#### PHYSICAL ACTIVITY

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB. *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

#### PHYSICAL TRAINING

METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY. Sullivan L. *Scand J Rehabil Med* 1-3, 1976 (Eng) DL/76NOV243

#### PHYTOHEMAGGLUTININ

CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL BLOOD LYMPHOCYTES. Apollonj MC, Vasile C, Floridi A, Natali PG. *Immunol Commun* 4: 453-63, 1975 (Eng) \*DL/76NOV654

#### PIMA INDIAN

NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS. Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH. *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

## Diabetes Literature—Keyword Index

### PITHED RAT

#### PITHED RAT

EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITHED RATS TO AUTONOMIC AGENTS. Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) \*DL/76NOV18

### PITUITARY

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermitte M, Vanhaelst L, Golstein J, Leclercq R, Fery R, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) \*DL/76NOV72

PITUITARY FUNCTION IN PSEUDOCYTES. Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) \*DL/76NOV93

DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANN'S SYNDROME AND ASSOCIATED CARDIAC ANOMALY. Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) \*DL/76NOV194

[CATAMINISTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS] Bock R, Wieczorek V, Dachsel R *Z Aerzl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) \*DL/76NOV274

HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE. Kawauchi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

CONFERENCE ON THE STRUCTURE-FUNCTION RELATIONSHIPS OF PITUITARY GROWTH HORMONE: A REPORT. Kostyo JL, Wilhelm A *Metabolism* 25: 105-24, Jan 76 (Eng) \*DL/76NOV666

### PITUITARY, ANTERIOR

THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO. Sundberg DK, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

### PITUITARY CELL

ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION. Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE. Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS. Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

### PITUITARY, HYPOTHALAMIC

TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS. PP. 371-95. Weitzman ED, Hellman L *In: Ferin M et al., ed. Biorhythms and human reproduction. New York, Wiley, 1974. QT 167 B616 1972. (Eng)* [56] \*DL/76NOV415

### PITUITARY-THYROID AXIS

PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION. Vanhaelst L, Degauque JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV501

### PLACENTA

THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS. Emmrich P, Fuchs U, Heinke P, Jutzl E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) \*DL/76NOV160

PLACENTAL CHANGES IN GESTATIONAL DIABETES. AN ULTRASTRUCTURAL STUDY. Jones CJ, Fox H *Obstet Gynecol* 48: 274-80, Sep 76 (Eng) \*DL/76NOV197

### PLACENTAL

[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATURATION DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)] Holz VM, Luthje D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

### PLACENTAL LACTOGEN

CLINICAL ASPECTS OF PLACENTAL LACTOGEN DETERMINATIONS. PP. 131-40. Chard T *In: Hunter OB Jr, ed. Radioassay in clinical concepts. Skokie, Ill., Searle, 1974. QY 250 59892r 1974. (Eng)* \*DL/76NOV123

### PLAQUE

CLINICO-PATHOLOGICAL STUDY OF AN ORGANIZED PLAQUE IN EXUDATIVE DIABETIC MACULOPATHY. Begg IS, Rootman J *Can J Ophthalmol* 11: 197-202, Jul 76 (Eng) \*DL/76NOV25

### PLASMA

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS] Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) \*DL/76NOV2

SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Deftois LJ, Lorenzi M, Bohanon N, Tsakalakos E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) \*DL/76NOV96

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologiya* 15: 91-100, Sep 75 (Rus) \*DL/76NOV152

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-73, JUL 76 (Eng) \*DL/76NOV175

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Senda P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 383-41z, Jul 76 (Eng) \*DL/76NOV193

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND

CHRONIC ALCOHOLISM] Dobrzenski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) \*DL/76NOV222

GROWTH HORMONE, INSULIN AND SUGAR IN THE FLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) \*DL/76NOV289

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) \*DL/76NOV290

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) \*DL/76NOV306

[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *Acta Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) \*DL/76NOV321

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5,2, 5-XYLOXY) VALERIC ACID THERAPY. Kisselbach AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) \*DL/76NOV383

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzalotti G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennmalm A *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadgen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA. Hardeman MR, Prins HK *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

### PLASMA APOLIPOPROTEIN

ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET. Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

### PLASMA CARNITINE

PLASMA CARNITINE AND BODY COMPOSITION. Cederblad G *Clin Chim Acta* 67: 207-12, 1 Mar 76 (Eng) \*DL/76NOV461

## Diabetes Literature—Keyword Index

### PLASMA FATTY ACID

**A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT.** Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) \*DL/76NOV373

**INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL.** Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

### PLASMA FATTY FREE ACID

**DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME.** Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525

### PLASMA FREE FATTY ACID

[**EFFECT OF ANGIOTENSIN II ON THE PATTERN OF PLASMA FREE FATTY ACIDS IN 2 HYPERTENSION MODELS IN RABBITS.**] Michailov ML *Cor Vasa* 17: 285-91, 1975 (Ger) \*DL/76NOV462

### PLASMA GLUCAGON

**PLASMA GLUCAGON AFTER KIDNEY EXCLUSION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN Eviscerated DOGS.** Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV174

### PLASMA GLUCOSE

**DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

**CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL.** Davison TF, Langslow DR *Comp Biochem Physiol* [A] 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

### PLASMA INSULIN

**AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESE MICE (AVV/A).** Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

**DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

[**PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS.**] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

**PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN.** Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

### PLASMA LIPOPROTEIN

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID.** PP. 44-8. Sailer S *In* Hautvast JGAJ, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV120

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATIONS INFLUENCE OF ADIPOSE TISSUE METABOLISM.** PP. 30-43. Björntorp P *In* Hautvast JGAJ, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [37] DL/76NOV121

### PLASMA MEMBRANE

**EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY.** Carpenter JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

**IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY.** Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218

**TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM.** Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

### PLASMA MEMBRANE VESICLE

**ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE.** P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Safran E, Le Magnen J *In* Colloque Européen de physiologie renale. Paris, INSERM, 1974. WJ 300 E89c 1974. (Eng) \*DL/76NOV401

### PLASMA PROTEIN

**PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS.** Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

### PLASMA RENIN

**CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION.** Lowder SC, Hamet P, Liddle GW *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV646

### PLASMA TRIGLYCERIDE

**LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE.** Andrew G, Chan G, Schiff D J *Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

### PLASMA VOLUME

**STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME**

### POLYMERIC REAGENTS

**EXPANSION.** Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

### PLASMA ZINC

**ESTIMATION AND INTERPRETATION ON PLASMA ZINC FRACTIONS.** Burns RR, Fell GS *Scott Med J* 21: 153-4, Jul 76 (Eng) DL/76NOV244

### PLATELET

**SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA.** Hardeman MR, Prins HK *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

### PLATELET AGGREGATION

**INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HAEMOGLOBINURIA (AUTHORS TRANSL)** Angulo P, Fernandez J, Lasierra J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

**LABILE AGGREGATION STIMULATING SUBSTANCE, FREE FATTY ACIDS, AND PLATELET AGGREGATION.** Gerrard JM, Whittaker JG, Krivit W *J Lab Clin Med* 87: 73-82, Jan 76 (Eng) \*DL/76NOV660

### PLATELET, BLOOD

**REGULATION OF GLYCOGEN METABOLISM IN HUMAN BLOOD PLATELETS.** PP. 107-9. Schneider W *In* Ulutin ON, ed. *Platelets. Amsterdam, Excerpta Medica, 1975.* N3 EX89 no. 357 1974. (Eng) \*DL/76NOV410

### PLATELET FUNCTION

**DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCAEMIA.** Hutton RA, Macnab AJ, Rivers RP *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329

### POISONED

**[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL)]** Violante A, Nardon C, Lenza G *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

### POISONING, SALT

**SEVERE SALT POISONING IN AN INFANT.** Saunders N, Balf JW, Laski B *J Pediatr* 88: 258-61, Feb 76 (Eng) \*DL/76NOV534

### POLARIZABILITY

**EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFFUSION IN LIPID BILAYER MEMBRANES.** Bradshaw RW, Robertson CR J *Memb Biol* 25: 93-114, 4 Dec 75 (Eng) \*DL/76NOV540

### POLYMERIC REAGENTS

**COVALENT CHROMATOGRAPHY - THE ISOLATION OF TRYPTOPHANYL CONTAINING PEPTIDES BY NOVEL POLYMERIC REAGENTS.** Rubinstein M, Shechter Y, Patchornik A *Biochem Biophys Res Commun* 70: 1257-63, 21 Jun 76 (Eng) DL/76NOV377

## Diabetes Literature—Keyword Index

### POLYNUCLEOTIDE

#### POLYNUCLEOTIDE

POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS. Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV20

### POLYPEPTIDE

POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARACTERIZATION, AND SOME BIOLOGICAL PROPERTIES OF FORMS I AND II. Rinderknecht E, Humbel RE *Proc Natl Acad Sci USA* 73: 2365-9, Jul 76 (Eng) \*DL/76NOV25

A MAJOR POLYPEPTIDE COMPONENT OF RAT LIVER MITOCHONDRIA: CARBAMYL PHOSPHATE SYNTHETASE. Clarke S *J Biol Chem* 251: 950-61, 25 Feb 76 (Eng) \*DL/76NOV51

### POLYPEPTIDE HORMONE

MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES. Acher R *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] DL/76NOV43

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlik H *In: Reich E, et al., ed. Proteases and biological control*. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975, W3 C162N v.2 1975. (Eng) [104] DL/76NOV12

THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES). Strand FL *Bioscience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV49

### POLYSOME

DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHEZISING POLYSOMES IN RAT LIVER. Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV21

### POSTMENOPAUSAL WOMAN

SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

### POSTOPERATIVE GLYCEMIC REACTION

[POSTOPERATIVE GLYCEMIC REACTIONS AND THEIR PROGNOSIS IN PATIENTS WITH CONCOMITANT DIABETES MELLITUS] Myshkin KI, Lisenkov VP *Vestn Khr I* 16: 97-9, May 76 (Rus) DL/76NOV266

### POSTPRANDIAL SEIZURE

THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN. Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

### POTASSIUM

[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL] Gasinska T, Gburek Z *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS] Bogoliubov VM, Ershova LM, Kaplan MA, Syzantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS. PP. 167-80. Gardos G, Szasz I, Sarkadi B *In: Gardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975, W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV403

### POTASSIUM, BODY

STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

### POTASSIUM CONCENTRATION

CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA. Kirchner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) \*DL/76NOV633

### POTASSIUM ION

K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO. Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST. Scharff TG, Perry AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng) \*DL/76NOV567

### PRECURSOR

CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL. Davison TF, Langslow DR *Comp Biochem Physiol* [A] 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

### PREDIABETES

NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS. Aronoff SL, Bennett PH, Rushforth NB, Miller M, Under RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

### PREDNISONE THERAPY

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Dietrich AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

### PREGESTATIONAL DIABETES

GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY. Tyson JE, Hock RA *Am J Obstet Gynecol* 125: 1009-27, 1 AUG 76 (Eng) DL/76NOV308

### PREGNANCY

[THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCIES] Tchobroutsky C, Cedard I, Rouvillois JL, Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

[IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY] Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 313-323, Jul 76 (Eng) DL/76NOV192

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 383-413, Jul 76 (Eng) DL/76NOV193

HCS REGULATION DURING PREGNANCY. Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS] Primicerio M, Plotti G, Montemurro A, Moneta E, Bompiani A *Ann Oster Ginecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

NUTRITION OF GLOSSINA MORSITANS: METABOLISM OF U-14C GLUCOSE DURING PREGNANCY. Moloo SK *J Insect Physiol* 22: 195-200, 1976 (Eng) \*DL/76NOV531

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTATICIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, \*DL/76NOV537

### PREGNANCY COUNTERINDICATION

[MEDICAL COUNTERINDICATIONS FOR PREGNANCY] Monnier JC *Lille Med* 20 spec no: 242-6, 1975 (Fre) DL/76NOV168

### PREGNANT DIABETIC

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

### PRELYMPHOMATOUS PHASE

RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE. Kahn SB, Cheung T, Lodise R, Brodsky I *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

### PRERUMINANT

EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS. Tanabe S, Kameoka K *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV6

## Diabetes Literature—Keyword Index

### PREVENTION

**THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN.** Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

### PRIMATE

**ARTERIAL METABOLISM IN PRIMATES.** Portman OW, Illingworth DR *Primates Med* 9: 145-223, 1976 (Eng) [349] \*DL/76NOV672

### PROBE

**LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES.** Stoffel W, Michaelis G *Hoppe Seylers Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

**LIPID-PROTEIN INTERACTIONS IN MITOCHONDRIA.** Spin and fluorescence probe studies on the effect of n-alkanols on phospholipid vesicles and mitochondrial membranes. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

### PROBE, SPIN

**MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES.** Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochem Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

### PROCaine HYDROCHLORIDE

**EFFECTS OF INSULIN AND PROCaine HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kisselbach AH, Clarke P, Vydelingum N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

### PROGESTERONE

**EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM.** Hertelendy F, Dahm CH Jr, Mueller EJ *Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

### PROINSULIN

**PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO.** Jain K, Logothetopoulos J *Biochem Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

### PROLACTIN

**CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN.** Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE.** Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

**LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION.** Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

### PROLACTIN RELEASE

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Leen A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

### PROLACTIN SECRETION

**ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS.** pp. 243-50. Imura H, Kato Y *In: Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

### PROPYONYL COENZYME A

**MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPYONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE.** Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

### PROPRANOLOL

**EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT.** Dimitriu CG, Manu P, Karassi A, Dragomirici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

### PROSTAGLANDIN

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

### PROSTGLANDIN

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS.** Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

### PROTEIN

**PROTEIN PHOSPHORYLATION AND HORMONE ACTION.** Cohen P, Antoniw JF, Nimmo HG, Yemana SJ *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41

**SELECTIVE CONTROL OF THE DEGRADATION OF NORMAL AND ABERRANT**

### PROTEIN METABOLISM

**PROTEINS IN REUBER H35 HEPATOMA CELLS.** Knowles SE, Ballard FJ *Biochem J* 156: 609-17, 15 Jun 76 (Eng) DL/76NOV372

**LIPID-PROTEIN INTERACTION IN MODEL SYSTEMS AND BIOMEMBRANES.** pp. 3-16. van Deenen LL *In: Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. WL 3 FE322 9th 1974 v.33. (Eng) [49] \*DL/76NOV402

**INTERACTIONS OF PROTEINS AND CHOLESTEROL WITH LIPIDS IN BILAYER MEMBRANES.** Kleemann W, McConnell HM *Biochim Biophys Acta* 419: 206-22, 21 Jan 76 (Eng) \*DL/76NOV425

**THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM.** Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

**[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA]** Neifakh SA, Puchkova LV *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

### PROTEIN INGESTION

**EFFECT OF PROTEIN INGESTION ON SPLANCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS.** Wahren J, Felig P, Hagenfeld L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

### PROTEIN KINASE

**CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER.** Schubert UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

### PROTEIN, LIPID

**LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES.** Stoffel W, Michaelis G *Hoppe Seylers Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

**PROCEEDINGS: LIQUID-PROTEIN INTERACTIONS IN BIOLOGICAL MEMBRANES.** Segrest JP *Z Klin Chem Klin Biochem* 13: 369, Aug 75 (Eng) \*DL/76NOV598

**LIPID-PROTEIN INTERACTIONS IN MITOCHONDRIA.** Spin and fluorescence probe studies on the effect of n-alkanols on phospholipid vesicles and mitochondrial membranes. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

### PROTEIN METABOLISM

**MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS.** Millward DJ, Nnanyelugo DO, Bates P, Heard CR *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

## Diabetes Literature—Keyword Index

### PROTEIN, MYOCARDIAL

CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE. Conev K, Raikova M, Boneva M *Folia Med (Plovdiv)* 17: 3-8, 1975 (Eng) \*DL/76NOV494

### PROTEIN, MYOCARDIAL

EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS. Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117:23, 1976 (Eng) \*DL/76NOV611

MECHANISM OF THE INHIBITION OF MYOCARDIAL PROTEIN SYNTHESIS DURING OXYGEN DEPRIVATION. Lesch M, Taegtmeyer H, Peterson MB, Vernick R *Am J Physiol* 230: 120-6, Jan 76 (Eng) \*DL/76NOV621

### PROTEIN, PLASMA

PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS. Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

### PROTEIN SPARING

PROTEIN SPARING PRODUCED BY PROTEINS AND AMINO ACIDS. Anonymous *Nutr Rev* 34: 174-6, Jun 76 (Eng) [5] DL/76NOV190

### PROTEIN SYNTHESIS, MUSCLE

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

### PROTEIN, TRANSPORT

POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS. Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

### PROTEIN-CALORIE MALNUTRITION

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

### PROTEOLYTIC

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lemmark A, Zuhlike H *Int Reich E, et al., ed. Proteases and biological control. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1973. WJ C162N v.2* 1975. (Eng) [104] DL/76NOV129

### PROVOCATION TEST

[PROVOCATION TESTS IN PHEOCHROMOCYTOMA] Muhlhoff G, Sach H *Med Welt* 27: 1179-81, 11 Jun 76 (Ger) DL/76NOV172

### PROXIMAL TUBULE

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Murer H, Sachse G, Thees E, Kinne-Saffran E, Le Magnen J *In0 Col-*

*loque Europeen de physiologie renale. Paris, INSERM, 1974. WJ 300 E89c 1974. (Eng) \*DL/76NOV401*

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

### PSEUDOCYESIS

PITUITARY FUNCTION IN PSEUDOCYESIS. Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

### PSYCHOSIS, MANIC DEPRESSIVE

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzky C, Geck P, Pfeiffer B *In0 Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p* 1974. (Eng) \*DL/76NOV395

### PULMONARY TUBERCULOSIS

[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Sfirleaza V, Tudor P, Moise T *Rev Ig [Pneumofisiol]* 25: 39-42, Jan-Mar 76 (Rum) DL/76NOV237

### PUMP, MEMBRANE

LETTER: ENERGY REQUIREMENTS OF MEMBRANE PUMPS. Minkoff L, Damadian R *N Engl J Med* 292: 162-3, 16 Jan 75 (Eng) \*DL/76NOV669

### PURINE NUCLEOTIDE

CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE] Khilar M, Uong DS *Biokhimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

### PURPURA

IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 313-32s, Jul 76 (Eng) DL/76NOV192

### PYLOROPLASTY

EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLOROPLASTY. Juler GL, Dagrad AE, Stempien SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

### PYRIDOXAL PHOSPHATE

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) \*DL/76NOV514

### PYRIDOXINE

EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS. Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

### PYRUVATE

MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE. Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

REGULATION OF CITRATE TRANSPORT IN RAT LIVER MITOCHONDRIA METABOLIZING PYRUVATE. Stucki JW *FEBS Lett* 61: 171-5, 15 Jan 76 (Eng) \*DL/76NOV486

PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES. Boland MJ, Gutfrund H *Biochem J* 151: 715-27, Dec 75 (Eng) \*DL/76NOV637

### PYRUVATE DEHYDROGENASE

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS. Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

### PYRUVATE KINASE

THE CONTROL OF PYRUVATE KINASE OF *Escherichia coli*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwal BD *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

[IDENTIFICATION OF THE INHIBITION TYPE OF HEXOKINASE AND PYRUVATE KINASE ACTIVITY BY CA2+] Genin MS, Andreiev VS *Biokhimia* 40: 885-9, Jul-Aug 75 (Rus) \*DL/76NOV644

### QUAIL, JAPANESE

INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL. Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

### RACING CYCLIST

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

## Diabetes Literature—Keyword Index

### RESPIRATION

#### RADIOIODINATE

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

#### RADIOISOTOPE

POSSIBILITIES OF RADIOISOTOPE DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS. Ignatov A, Karastanov I, Minchev M *Urol Nefrol (Mosk)* 13-6, Sept-Oct 75 (Rus) DL/76NOV263

#### RADIOLOGY

RADIOLOGY NOW. THE COLON PACIFIED. Simpkins KC *Br J Radiol* 49: 303-5, Apr 76 (Eng) DL/76NOV19

#### RADIORESPIROMETRIC STUDY

RADIORESPIROMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE. DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) DL/76NOV532

#### RAPESEED OIL

EFFECT OF COLD STRESS ON RAPESEED OIL-FED RATS. Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) DL/76NOV547

MORPHOLOGICAL EFFECTS OF RAPESEED OIL IN RATS. I. SHORT-TERM STUDIES. Engfeldt B, Brunius E *Acta Med Scand [Suppl]* 15-26, 1975 (Eng) DL/76NOV609

PHYSIOPATHOLOGICAL EFFECTS OF RAPESEED OIL: A REVIEW. Borg K *Acta Med Scand [Suppl]* 5-13, 1975 (Eng) [88] \*DL/76NOV610

#### RAT, ALLOXAN DIABETIC

REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS. Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

#### RATE LIMITING STEP

RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS. Neely JR, Rovetto MJ, Whiteman JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) DL/76NOV616

#### REAGENT STRIP METHOD

EVALUATION OF A REAGENT-STRIP METHOD FOR GLUCOSE IN WHOLE BLOOD, AS COMPARED WITH A HEXOKINASE METHOD. Stewart TC *Clin Chem* 22: 74-8, Jan 76 (Eng) DL/76NOV648

#### RECEPTOR, MEMBRANE

MEMBRANE RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS. Kahn CR *J Cell Biol* 70: 261-86, Aug 76 (Eng) DL/76NOV89

#### RECESSIVE INHERITANCE

RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY

AND DEAFNESS. Page MM, Asmal AC, Edwards CR *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

#### RED BLOOD CELL

IN VITRO METABOLISM OF RED BLOOD CELLS FROM NEWBORN AND ADULT GOATS. Agar NS, Harley JD *Bioch Neonate* 28: 113-7, 1976 (Eng) \*DL/76NOV444

RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE. Kahn SB, Cheung T, Lodise R, Brodsky I *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

#### RED CELL

MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS. PP. 167-80. Gardos G, Szasz I, Sarkadi B *In: Gardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV403

#### RED CELL AGGREGATION

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schönbein H, Kline KA, Volger E *Bibl Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

#### REDOX STATE

DEPENDENCE OF MYOCARDIAL REDOX SYSTEMS ON THE CONCENTRATION OF EXOGENOUS SUBSTRATE. Moravec J, Corsin A, Hatt PY *Recent Adv Stud Cardiac Struct Metab* 8: 167-77, 1975 (Eng) \*DL/76NOV574

#### REFLEX, CARDIOVASCULAR

CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS. Bennett T, Hosking DJ, Hampton JR *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

#### REGULATION MECHANISM

A NEW MATHEMATICAL APPROACH OF HORMONAL REGULATORY MECHANISMS DURING GROWTH. PP. 3-11. Collot F *In: Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV385

THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA. Neifakh SA, Puchkova LV *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

#### REMISSION DIABETES

SPONTANEOUS DIABETES REMISSION IN CHILDHOOD. Nowakowski T, Wasikowa R *Kinderarztl Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

#### RENAL ALLOGRAFT

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Diethelm AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

#### RENAL COMPLICATION

POSSIBILITIES OF RADIOISOTOPE DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS. Ignatov A, Karastanov I, Minchev M *Urol Nefrol (Mosk)* 13-6, Sept-Oct 75 (Rus) DL/76NOV263

#### RENAL FAILURE

RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE. Thayissen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

#### RENAL FAILURE, CHRONIC

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

#### RENAL FUNCTION

ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERURICEMIA IN THE RAT. Spencer HW, Yarger WE, Robinson RR *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

#### RENAL TRANSPLANTATION

RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE. Thayissen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT. Shons AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

#### RENIN, PLASMA

CONTRASTING EFFECTS OF HYPOLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION. Lower DC, Hamet P, Liddle GW *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV646

#### RENIN

PARTIAL CHARACTERIZATION OF A THERMOPHILIC ACTINOMYCETE RENIN. Laxer S, Pinsky A, Bartov B *Experientia* 67-75, 1976 (Eng) DL/76NOV55

#### RESERPINE

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzański T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

#### RESPIRATION

FURTHER STUDIES ON THE EFFECT OF PHOSPHOENOLPYRUVATE ON RESPIRATION-DEPENDENT CALCIUM TRANSPORT BY RAT HEART MITOCHONDRIA. Chdapongsa P *Biochim Biophys Acta* 423: 196-202, 16 Feb 76 (Eng) \*DL/76NOV437

## Diabetes Literature—Keyword Index

### RESPIRATION TOXIN

**STOICHIOMETRY OF H& EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA2& BY RAT LIVER MITOCHONDRIA.** Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

**[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPHERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE]** Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

### RESPIRATION TOXIN

**[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA]** Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

### RESPIRATORY CONTROL

**RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM.** Tsokos JO, Bloom S *Biochim Biophys Acta* 423: 42-51, 15 Jan 76 (Eng) \*DL/76NOV436

### RETINA

**[NON-INFLAMMATORY DISEASES OF THE RETINA]** Fechner PU *Buech Augenarzt* 67: 261-73, 1976 (Ger) DL/76NOV24

### RETINAL RESEARCH

**A SELECTED REVIEW OF CURRENT RETINAL RESEARCH AND STUDY.** Cohen J *Am J Optom Physiol Opt* 53: 318-28, Jun 76 (Eng) [38] DL/76NOV311

### RETINOPATHY

**ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY.** Hoare EM, Barnes AJ, Dormandy JA *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

**PROLIFERATIVE DIABETIC RETINOPATHY.** Siam AL *Bull Ophthalmol Soc Egypt* 68: 533-63, 1975 (Eng) DL/76NOV15

### RETINOPATHY, DIABETIC

**SOME PLAIN TALK ON DIABETIC RETINOPATHY.** Fine SL *Sight Sav Rev* 46: 3-9, Spring 76 (Eng) DL/76NOV246

**DIABETIC RETINOPATHY. A CLINICAL AND MORPHOLOGICAL STUDY.** Zrustova M, Vrabec R, Rostapil J *Acta Diabetol Lat* 12: 272-88, Sep-Dec 75 (Eng) DL/76NOV283

**[THE ARGON LASER AND DIABETIC RETINOPATHY]** Massin M, Laborde-Berranger A *Arch Ophthalmol (Paris)* 35: 735-46, Oct 75 (Fre) DL/76NOV341

### REVIEW

**CRITICAL REVIEW OF THE USE OF CAROTID BOVINE GRAFTS FOR HEMODIALYSIS.** Zincke H *Eur Surg Res* 8: 189-95, 1976 (Eng) DL/76NOV53

**MULTIPLE COMPLICATIONS IN SEVERE DIABETIC KETOACIDOSIS. A SHORT REVIEW OF THE LITERATURE.** Clarke BF, Campbell IW *Acta Diabetol Lat* 12: 327-37, Sep-Dec 75 (Eng) DL/76NOV288

**A SELECTED REVIEW OF CURRENT RETINAL RESEARCH AND STUDY.** Cohen J *Am J Optom Physiol Opt* 53: 318-28, Jun 76 (Eng) [38] DL/76NOV311

**PHYSIOPATHOLOGICAL EFFECTS OF RAPSEED OIL: A REVIEW.** Borg K *Acta Med Scand (Suppl)* 5-13, 1975 (Eng) [88] \*DL/76NOV610

### RHESUS

**ATHEROSCLEROSIS IN RHECUS AND CYNOLOGUS MONKEYS.** Armstrong ML *Primates Med* 9: 16-40, 1976 (Eng) [67] \*DL/76NOV673

### RHESUS HEMOLYTIC DISEASE

**OBSERVATIONS ON SEVERE RHECUS HAEMOLYTIC DISEASE.** Matthews TG, Nolan G, O'Sullivan BJ *Ir Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

### RHESUS MONKEY

**FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHECUS MONKEY PREGNANCY.** Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

**STIMULATION OF RHECUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION.** Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

**REVERSIBILITY OF FATTY STREAKS IN RHECUS MONKEYS.** Strong JP, Eggen DA, Stary HC *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

### RIBONUCLEIC ACID, MESSENGER

**ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY.** Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV407

### RIBONUCLEIC ACID SYNTHESIS

**[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA]** Neifakh SA, Puchkova LV *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

### RISK

**ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS.** Dietelbaum AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

### RISK FACTOR

**RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE.** Dumicetiere P, Warner JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV292

### SACCHAROMYCES CEREVIAE

**EFFECT OF AERATION ON THE ACTIVITY OF GLUCONEOGENETIC ENZYMES IN SACCHAROMYCES CEREVIAE GROWING UNDER GLUCOSE LIMITATION.** Haarsilta S, Oura E *Arch Microbiol* 105: 271-3, 31 Dec 75 (Eng) \*DL/76NOV630

### SALICYLIC ACID

**THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST.** Scharff TG, Perry AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng) \*DL/76NOV567

### SALT POISONING

**SEVERE SALT POISONING IN AN INFANT.** Saunders N, Balfie JW, Laski B *J Pediatr* 88: 258-61, Feb 76 (Eng) \*DL/76NOV534

### SCHNYDERS CORNEAL DYSTROPHY

**[SCHNYDERS CORNEAL DYSTROPHY AND HYPERLIPIDEMIA (AUTHORS TRANSL)]** Kaden R, Feurle G *Albrecht von Graefes Arch Klin Ophthalmol* 198: 129-38, 4 Feb 76 (Ger) \*DL/76NOV625

### SECRETAGOGUE, INSULIN

**INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE.** Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV88

### SECREIN

**EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99mTC PERTECHNETATE IN MICE.** Khettry J, Eiffmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

### SECRETION

**[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL]** Sakasaki S, Umeyama K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

**[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT]** Rylova AK *Kardiologiya* 15: 100-3, Sep 75 (Rus) DL/76NOV150

### SECRETION, GASTRIC

**INFLUENCE OF HYPERGLYCAEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS.** Markiewicz K, Lukin M *Digestion* 14: 188-91, 1976 (Eng) DL/76NOV59

### SECRETION, GASTRIC ACID

**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

### SECRETION, GLUCAGON

**SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY.** Miyata M, Yamamoto T, Nakao K *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

**POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS.** Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

## Diabetes Literature—Keyword Index

### SERUM GASTRIN

#### SECRETION, INSULIN

**EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS.** Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

**THE MODE OF ACTION OF ADENOSINE 3:5-CYCLOC PHOSPHATE IN THE REGULATION OF INSULIN SECRETION.** Montague W, Howell SL *Ciba Found Symp* 41: 141-58, 1976 (Eng) [33] DL/76NOV38

**THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT.** Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

**THE REGULATION OF INSULIN SECRETION.** Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [814] DL/76NOV235

**EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLORPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION.** Bittner R, Beger HG, Kraas E, Gogel H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

#### SECRETION OF INSULIN

**THE EFFECT OF N-ACYGLUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT.** Ashcroft SJ, Crossley JR, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

#### SEIZURE, POSTPRANDIAL

**THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN.** Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

#### SELECTIVE BREEDING

**PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING.** Goto Y, Kakizaki M, Masaki N *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) DL/76NOV258

#### SELENITE

**EFFECT OF SODIUM SELENITE ON THE RATE OF GLYCOLYSIS UNDER AN INTENSIVE MUSCULAR LOAD** [PP. 94-5. Karacev MA, Gasanov GG *In 60 Gasanov GG, ed. Selen v biologii. Baku, Elm, 1974. QV 618 S464 1974. (Rus)*] \*DL/76NOV384

#### SEMINIFEROUS TUBULE

**THE ENTRY OF SUBSTANCES INTO THE SEMINIFEROUS TUBULES.** PP. 37-57. Setchell BP *In 60 Mancini RE, Martini L, ed. Male fertility and sterility.* London, Academic Press, 1974. W3 PR945R v.5 1974. (Eng) \*DL/76NOV416

#### SEMISTARVATION

**EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO.** Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

#### SENILE DIABETES

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A**

**CONTROLLED DOUBLE-BLIND TRIAL]** Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Sagid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

#### SENSORY CELL

**ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS.** Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

#### SEPTIC COMPLICATIONS

**SEPTIC COMPLICATIONS OF TOTAL PARENTERAL NUTRITION. A FIVE YEAR EXPERIENCE.** Sanders RA, Sheldon GF *Am J Surg* 132: 214-20, Aug 76 (Eng) DL/76NOV314

#### SEPTIC SHOCK

**EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK?** O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

#### SEROTONIN

**[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION]** Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

**SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA.** Hardeman MR, Prins HK *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

#### SERUM

**[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES]** Tareev EM, Kotliarov EV, Poliantseva LR, Tatischevskii VA, Nevaeva OG *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

**COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN.** Assandri A, Perazzi A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

**POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARACTERIZATION, AND SOME BIOLOGICAL PROPERTIES OF FORMS I AND II.** Rinderknecht E, Humber RE *Proc Natl Acad Sci USA* 73: 2365-9, Jul 76 (Eng) DL/76NOV215

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R,

Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahit E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

**[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS]** Primicerio M, Plotti G, Montemurro A, Moneta E, Bompiani A *Ann Ostet Ginecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

**SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN.** Poulsen HL *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV353

**[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)]** Oravec D, Moravec R *Bratisl Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

**BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS.** Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

**IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM.** Etzrodt H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seyler's Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

**A SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF GLUCOSE IN BLOOD SERUM.** Daines TL, Morse KW *J Chem Educ* 53: 126-7, Feb 76 (Eng) \*DL/76NOV521

**[LETTER: GLUCOSE ANALYSIS IN BLOOD AND SERUM WITH THE BM-TESTMETER]** Nue I, Wulff AM, Bundgaard K *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

**[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD, SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY]** Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

#### SERUM TRANSAMINASE

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitn N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

#### SERUM ALPHA 2

**RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE.** Ducimetiere P, Warriet JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

#### SERUM GASTRIN

**[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL]** Sakasaki S, Umeyama K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

## Diabetes Literature—Keyword Index

### SERUM, GLOBULIN

#### SERUM, GLOBULIN

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warnez JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

#### SERUM GLUCOSE

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng) DL/76NOV460

#### SERUM INSULIN

[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILCH COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM] Kirchgessner M, Roth HP, Schwarz WA Z *Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

#### SERUM LIPOPROTEIN

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Pervova NV, Titova VN, Kolodava AP, Galakhova IE *Vopr Med Klin* 21: 589-95, Nov-Dec 75 (Rus) DL/76NOV597

#### SERUM SEROTONIN

[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESIVE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION] Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

#### SERUM TRIGLYCERIDE

LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS. Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorge NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) DL/76NOV463

#### SEXUAL MATURATION

BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION. Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

#### SHOCK

INITIAL EVALUATION OF THE PATIENT IN COMA OR SHOCK. PP. 11-8. Goldberg TH *In* Goldfein JC, ed. *Emergency management of the critical patient*. New York, Stratton, 1975. W1 EM662H v2 1975. (Eng) DL/76NOV118

METABOLIC DISORDERS CAUSING COMA AND SHOCK. PP. 175-85. Taylor AL *In* Goldfein JC, ed. *Emergency management of the critical patient*. New York, Stratton, 1975. W1 EM662H v2 1975. (Eng) DL/76NOV119

#### SHOCK, ANAPHYLACTIC

MYOCARDIAL SUBSTRATE UTILIZATION IN ANAPHYLACTIC SHOCK. Spitzer JJ *Proc Soc*

*Exp Biol Med* 151: 28-31, Jan 76 (Eng) \*DL/76NOV566

#### SHOCK, SEPTIC

EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

#### SIGMOIDOVESICOCUTANEOUS

SIGMOIDOVESICOCUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON. Parsa F, Passaro E *Am J Surg* 132: 105-7, Jul 76 (Eng) DL/76NOV312

#### SKELETAL MUSCLE

PHOSPHOFRUCTOKINASE AND SUCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE. Ianuzzo CD, Armstrong RB *Horm Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV78

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

#### SMALL BOWEL

[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL OF THE RAT (AUTHORS TRANSL) Merkle P, Bindewald H, Breitig D *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546

#### SMALL INTESTINE

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *In* Gardos G, Szasz I, ed. *Biomembranes* Structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

CIRCADIAN RHYTHMS IN DISACCHARIDASES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE. Saito M, Murakami E, Suda M *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) \*DL/76NOV431

PROCEEDINGS: EFFECT OF ACTIVELY TRANSPORTED HEXOSSES ON AFFERENT NERVE DISCHARGE FROM RAT SMALL INTESTINE IN VIVO. Sanford PA *J Physiol (Lond)* 254: 75P-76P, Jan 76 (Eng) \*DL/76NOV539

EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

#### SMALL INTESTINE, RAT EVERTED

PROCEEDINGS: THE EFFECTS OF NON-TRANSPORTABLE COMPETITIVE INHIBITORS OF SUGAR TRANSFER ON THE SHORT-CIRCUIT CURRENT OF THE RAT EVERTED SMALL INTESTINE. Muflib IW, Widdas WF *J Physiol (Lond)* 254: 50P-52P, Jan 76 (Eng) \*DL/76NOV538

#### SNAIL

SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOMPHALUS HORTENSIS MULLER). Barber A, Jordana R, Ponz F *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) \*DL/76NOV571

#### SODIUM

[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL] Gasinska T, Gburek Z *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOMPHALUS HORTENSIS MULLER). Barber A, Jordana R, Ponz F *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) \*DL/76NOV571

STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS. Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

#### SODIUM ION

SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM. Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

THE EFFECTS OF REMOVAL OF SODIUM IONS FROM THE MUCOSAL SOLUTION ON SUGAR ABSORPTION BY RABBIT ILEUM. Naftalin RJ, Holman GD *Biochim Biophys Acta* 419: 385-90, 21 Jan 76 (Eng) \*DL/76NOV429

#### SODIUM NITRITE

[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL)] Violante A, Nardoni C, Lenza G *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

#### SODIUM SELENITE

[EFFECT OF SODIUM SELENITE ON THE RATE OF GLYCOLYSIS UNDER AN INTENSIVE MUSCULAR LOAD] PP. 94-5. Karaev MA, Gasanov GG *In* Gasanov GG, ed. *Selen v biologii*. Baku, Elm, 1974. QV 618 5464 1974. (Rus) \*DL/76NOV384

#### SOMATOMEDIN

GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN. Giudano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kbh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604

#### SOMATOSTATIN

SOMATOSTATIN--CLINICAL IMPLICATIONS. Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, L'Hermitte M, Vanhaest L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Deftois LJ, Lorenzi M, Bohanon N, Tsakalak E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

## Diabetes Literature—Keyword Index

### STENONS DUCT

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**SOMATOSTATIN AND THE ENDOCRINE PANCREAS.** PP. 127-43. Gerich JE *In: Labrie F, et al., ed. Hypothalamus and endocrine functions. New York, Plenum Press, 1976. W1 CU82M v.3 1976.* (Eng) [53] DL/76NOV127

**PLASMA GLUCAGON AFTER KIDNEY EXCLUSION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN Eviscerated DOGS.** Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV174

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) DL/76NOV473

**BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS.** Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) DL/76NOV474

**THE INTRIGUING STORY OF SOMATOSTATIN.** Reitsma WD *Neth J Med* 19: 1-4, 1976 (Eng) DL/76NOV559

**PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN.** Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) DL/76NOV585

### SOMATOSTATIN ANALOG

**INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT.** Ferdinand L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) DL/76NOV491

### SOMATOSTATIN, GASTROINTESTINAL

**GASTROINTESTINAL SOMATOSTATIN CELLS IN THE HUMAN FETUS.** Dubois PM, Paulin C *Cell Tissue Res* 166: 179-84, 12 Feb 76 (Eng) DL/76NOV455

### SOMATOSTATIN SYNTHESIS

**STUDIES ON PEPTIDES. LVI. SYNTHESIS OF NI-TYR-SOMATOSTATIN.** Fujii N, Yajima H *Chem Pharm Bull (Tokyo)* 23: 2446-9, Oct 75 (Eng) DL/76NOV456

### SOMATOSTATINERGIC NEURON

**SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION.** Albert LC, Brauer JR, Patel YC, Reichlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) DL/76NOV467

### SOMATOTROPIC HORMONE

**[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT]** Rylova AK *Kardiologija* 15: 100-3, Sep 75 (Rus) DL/76NOV150

### SOMATOTROPIN

**HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE.** Kawauchi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

### SOMATOTROPIN, HUMAN CHORIONIC

**HCS REGULATION DURING PREGNANCY.** Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

### SOMOGYI EFFECT

**SOMOGYI EFFECT IN PATIENT WITH HYPOPITUITARISM.** Vesely DL, Castro A, Levey GS *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

### SORBITOL INFUSION

**[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION]** Matzakis F, Berg G, Bickel H, Sailer D *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

### SPARING

**PROTEIN SPARING PRODUCED BY PROTEINS AND AMINO ACIDS.** Anonymous *Nutr Rev* 34: 174-6, Jun 76 (Eng) [5] DL/76NOV190

### SPARING EFFECT

**A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT.** Rennie MJ, Winder WW, Holllosy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

### SPECTROPHOTOMETRIC METHOD

**A SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF GLUCOSE IN BLOOD SERUM.** Daines TL, Morse KW *J Chem Educ* 53: 126-7, Feb 76 (Eng) \*DL/76NOV521

### SPECTROSCOPIC

**SPECTROSCOPIC STUDIES OF MEMBRANE STRUCTURE.** Marsh D *Essays Biochem* 11: 139-80, 1975 (Eng) [82] DL/76NOV478

### SPHYNOGOMYELIN

**[THE LECITHIN-SPHYNOGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCIES]** Tchobroutsky C, Cedard L, Rouvillois JL, Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

### SPIN

**LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES.** Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

### SPIN PROBE

**MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES.** Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochem Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

### SPINDLE CELL TUMOR

**SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA.** Millard PR, Jerome DW, Millward-Sadler GH *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

### SPLANCHNIC

**EFFECT OF PROTEIN INGESTION ON SPLENCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS.** Wahren J, Felig P, Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

### SPONTANEOUS DIABETES

**[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD]** Nowakowski T, Wasikowa R *Kinderaerztl Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

### SPONTANEOUS DIABETES MELLITUS

**SPONTANEOUS DIABETES MELLITUS IN A TURTLE.** Frye FL, Dutra FR, Carney JD, Johnson B *Vet Med Small Anim Clin* 71: 935-9, Jul 76 (Eng) DL/76NOV267

### SPONTANEOUS DIABETIC RAT

**PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING.** Goto Y, Kakizaki M, Masaki N *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) DL/76NOV258

### STAPHYLOCOCCAL

**EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG.** Mahaffey MB, Anderson NV *Am J Vet Res* 37: 947-52, Aug 76 (Eng) DL/76NOV319

### STARVATION

**ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT.** Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

### STARVATION, ACUTE

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

### STARVING FOWL

**CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL.** Davison TF, Langslow DR *Comp Biochem Physiol* [A] 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

### STATISTICAL INTERPRETATION

**STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST.** Sasaki A, Horiuchi N *J Chronic Dis* 29: 129-40, Feb 76 (Eng) DL/76NOV91

### STENONS DUCT

**[STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF**

## Diabetes Literature—Keyword Index

### STIMULUS-SECRETION COUPLING

STENONS DUCTI Orlenko MA, Kolesnikov RN *Stomatologija (Mosk)* 54: 85-6, May-Jun 75 (Rus) \*DL/76NOV593

### STIMULUS-SECRETION COUPLING

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL? Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

### STOICHIOMETRY

STOICHIOMETRY OF H<sub>2</sub> EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA<sub>2+</sub> BY RAT LIVER MITOCHONDRIA. Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

### STRAIN DIFFERENCE

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

### STREPTOZOTOCIN

DISTRIBUTION OF LABELED STREPTOZOTOCIN IN MICE: UPTAKE AND RETENTION IN PANCREATIC ISLETS. Tjalve H, Wilander E, Johansson EB *J Endocrinol* 69: 453-6, Jun 76 (Eng) DL/76NOV134

PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES. Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) DL/76NOV141

### STRESS

BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION. Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV664

### STRESS, COLD

EFFECT OF COLD STRESS ON RAPESEED OIL FED RATS. Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

### STRESS, HEAT

EFFECTS OF ACUTE HEAT STRESS ON TISSUE CARBOHYDRATE IN FASTED RATS. Harrison MH *Aviat Space Environ Med* 47: 165-7, Feb 76 (Eng) DL/76NOV636

### STRESS, IMMOBILIZATION

EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS. Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

### STRESS INDUCED

BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP 335-45. Kuriyama K, Nakagawa K *In 6 Huxtable R, Barbeau A, ed. Taurine*. New York, Raven Press, 1975 W3 IN923E 1975t. (Eng) \*DL/76NOV639

### STRESS, MENTAL

CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS. Bennett T, Hosking DJ, Hampton JR *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

### STRESSED

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

### STRUCTURE FUNCTION RELATIONSHIP

CONFERENCE ON THE STRUCTURE-FUNCTION RELATIONSHIPS OF PITUITARY GROWTH HORMONE: A REPORT. Kostyo JL, Wilhelmi AF *Metabolism* 25: 105-24, Jan 76 (Eng) \*DL/76NOV666

### SUBARACHNOID FLUID

CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA. Kirshner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) \*DL/76NOV633

### SUBCELLULAR FRACTION

CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE. Sehlin J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

### SUBCUTANEOUS

SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN. Poulsen HL *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV353

### SUBMAXILLARY GLAND

CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT. Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

### SUBSTRATE

THE CONTROL OF PYRUVATE KINASE OF *ESCHERICHIA COLI*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwal BD *Biochemistry* 13: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

[OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO] Brachet E C *R Soc Biol (Paris)* 169: 1077-80, 1975 (Fre) \*DL/76NOV450

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

DEPENDENCE OF MYOCARDIAL REDOX SYSTEMS ON THE CONCENTRATION OF EXOGENOUS SUBSTRATE. Moravec J, Corsin A, Hatt PY *Recent Adv Stud Cardiac Struct Metab* 8: 167-77, 1975 (Eng) \*DL/76NOV574

### SUBSTRATE SPECIFICITY

ATP-DEPENDENT REACTIONS CATALYZED BY INNER MEMBRANE VESICLES OF RAT LIVER MITOCHONDRIA. KINETICS, SUBSTRATE SPECIFICITY, AND BICARBONATE SENSITIVITY. Pedersen PL *J Biol Chem* 251: 934-40, 25 Feb 76 (Eng) \*DL/76NOV516

### SUCCINATE DEHYDROGENASE

PHOSPHOFRUCTOKINASE AND SUCCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE. Ianuzzo CD, Armstrong RB *Horm Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV78

EFFECT OF GLUCOSE AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE ON THE SYNTHESIS OF SUCCINATE DEHYDROGENASE AND ISOCITRATE LYASE IN *ESCHERICHIA COLI*. Takahashi Y *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng) \*DL/76NOV511

### SUCKLED CALF

BIOCHEMICAL STUDIES OF THE COLLAPSE SYNDROME IN SUCKLED CALVES. Barber DM, Doxey DL *Vet Rec* 97: 424-8, 29 Nov 75 (Eng) \*DL/76NOV595

### SUCKLING LAMB

HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS. Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

### SUCRASE ISOMALTASE COMPLEX

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *In 6 Gards G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

### SUCROSE

HUMAN NEWBORNS DIFFERENTIATE DIFFERENT CONCENTRATIONS OF SUCROSE AND GLUCOSE. Nowlis GH, Kessen W *Science* 191: 865-6, 27 Feb 76 (Eng) \*DL/76NOV587

### SUGAR

THE CONTROL OF INSULIN RELEASE BY SUGARS. Ashcroft SJ *Ciba Found Symp* 41: 117-39, 1976 (Eng) [58] DL/76NOV37

GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Blom AK, Halse K, Hove K *Acta Endocrinol (Khb)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

## Diabetes Literature—Keyword Index

### SYNDROME, CUSHINGS

#### SURGERY, INTRA UTERINE

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

#### SURGICAL

ISURGICAL INDICATIONS IN ARTERITIS OF THE LOWER EXTREMITIES IN 70-YEAR-OLD PATIENTS. Firouz Abadie H *Phlebologie* 28: 483-91, Jul-Sep 75 (Fre) DL/76NOV221

HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT. Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

#### SURGICAL TECHNIQUE

PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arne P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

#### SURGICAL TREATMENT

[RESURGICAL TREATMENT OF UROLITHIASIS IN DIABETICS] Fryczkowski M, Skop B *Wiad Lek* 29: 1073-7, 15 Jun 76 (Pol) DL/76NOV272

SURGICAL TREATMENT OF MAL PERFORANS. Singer A *Arch Surg* 111: 964-8, Sep 76 (Eng) DL/76NOV340

#### SURVEY

TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY. Anonymous *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

DIABETES MELLITUS. A REPORT FROM THE AUSTRALIAN GENERAL PRACTITIONER MORBIDITY AND PRESCRIBING SURVEY 1969-1974. Dunstone MW *Aust Fam Physician* 5: 479-80, May 76 (Eng) DL/76NOV347

#### SYNDROME

RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS. Page MM, Asmal AC, Edwards CR *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

#### SYNDROME, CLINICAL

NEW CLINICAL SYNDROMES UNDER REGULAR INTERMITTENT HEMODIALYSIS. Loew H, Samizadeh A, Heilmann E *Curr Top Pathol* 61: 239-76, 1976 (Eng) [280] \*DL/76NOV464

#### SYNDROME, COLLAPSE

BIOCHEMICAL STUDIES OF THE COLLAPSE SYNDROME IN SUCKLED CALVES. Barber DM, Doxey DL *Vet Rec* 97: 424-8, 29 Nov 75 (Eng) \*DL/76NOV595

#### SYNDROME, CUSHINGS

[BIOCHEMICAL FORM OF A PARANEOPLASTIC CUSHINGS SYNDROME (AUTHORS TRANSL)] Strohfeldt P *Munch Med*

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quarini A, Voegeli H *Ind Gards G, Szasz I, ed. Biomembranes* structure and function. Amsterdam, North-Holland, 1975, W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM. Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

EFFECTS OF SUGARS ON THE PHYSIOLOGY OF CULTURED FIBROBLASTS. Johnson GS, Schwartz JP *Exp Cell Res* 97: 281-90, Feb 76 (Eng) \*DL/76NOV481

REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIANED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN ESCHERICHIA COLI. Saier MH Jr, Feucht BU, Hofstatter LJ *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOPHALUS HORTENSIS MULLER). Barber A, Jordana R, Ponz F *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) \*DL/76NOV571

#### SUGAR ABSORPTION

THE EFFECTS OF REMOVAL OF SODIUM IONS FROM THE MUCOSAL SOLUTION ON SUGAR ABSORPTION BY RABBIT ILEUM. Naftalin RJ, Holman GD *Biochim Biophys Acta* 419: 385-90, 21 Jan 76 (Eng) \*DL/76NOV429

EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

#### SUGAR, BLOOD

CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMMOBILIZATION. Platonova RD, Baskakova GM, Chepurnov SA *Biol Nauki* 37-40, 1975 (Rus) \*DL/76NOV443

#### SUGAR METABOLISM

PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES. Rinaudo MT, Ponzetto C, Curti M, Bettia PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84

#### SUGAR REDUCING

[GLUCOSE AND THE REDUCING SUGARS OF THE HUMAN BILE] Paris J, Salembier Y, Gerard A, Samso G *Med Chir Dig* 4 suppl 1: 31-4, 1975 (Fre) DL/76NOV162

#### SUGAR TRANSFER, INHIBITOR

PROCEEDINGS: THE EFFECTS OF NON-TRANSPORTABLE COMPETITIVE INHIBI-

TORS OF SUGAR TRANSFER ON THE SHORT-CIRCUIT CURRENT OF THE RAT EVERTED SMALL INTESTINE. Muflah IW, Widdas WF *J Physiol (Lond)* 254: 50P-52P, Jan 76 (Eng) \*DL/76NOV538

#### SUGAR TRANSPORT

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Safran E, Le Magnen J *Ind Colloque Europeen de physiologie renale. Paris, INSERM, 1974. WJ* 300 E89c 1974. (Eng) \*DL/76NOV401

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

#### SULFAMIDE, HYPOGLYCEMIC

[HYPOGLYCEMIC SULFAMIDES] Martin-Lingueut A *Lille Med* 21: 369-73, Apr 76 (Fre) DL/76NOV169

#### SULFAMOXOLE TRIMETHOPRIM

[CLINICAL TRIAL OF THE ANTIBACTERIAL COMBINATION SULFAMOXOLE/TRIMETHOPRIM (CN 3123)/SIXTH COMMUNICATION: RESULTS OF COMPATIBILITY OF CN 3123 (AUTHORS TRANSL)] Etzel M, Wessenberg W *Arznei Forsch* 26: 678-83, 1976 (Ger) DL/76NOV382

#### SULFONAMIDE

INEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojcikowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) DL/76NOV298

#### SULFONYLUREA

CIRCULAR DICHROISM STUDIES ON THE INTERACTION OF SULFONYLUREAS WITH INSULIN. Muller WE, Wollert U *Naunyn Schmiedebergs Arch Pharmacol* 293: 97-9, 24 Mar 76 (Eng) DL/76NOV185

GS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg B. *Anal Chem* 48: 1386-94, Aug 76 (Eng) DL/76NOV316

#### SULOCTIDIL

POTENTIAL ANTIILIPOLYTIC ACTIVITY OF SULOCTIDIL. Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

#### SURGERY

SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY. Miyata M, Yamamoto T, Nakao K *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

## Diabetes Literature—Keyword Index

### SYNDROME, FANCONI

Wochenschr 118: 883-4, 2 Jul 76 (Ger)  
DL/76NOV179  
DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME. Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng)  
\*DL/76NOV525

### SYNDROME, FANCONI

HYPOPHOSPHATEMIA OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS. Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng)  
DL/76NOV225

### SYNDROME, ITSENKO-CUSHINGS

[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME] Bogatyrev OP, Tishenina RS, Zenovka EI *Sov Med* 115-8, Sept 75 (Rus)  
DL/76NOV249

### SYNDROME, KALLMANS

DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY. Rosenburg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng)  
DL/76NOV194

### SYNDROME, KIDNEY

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng)  
\*DL/76NOV641

### SYNDROME, NEPHROTIC

NEPHROTIC SYNDROME: ETIOLOGY, DIAGNOSIS, AND TREATMENT. Finkelstein FO, Haylett JP *Geriatrics* 31: 39-44, 48, AUG 76 (Eng) [46] DL/76NOV66

### SYNDROME, VENTROMEDIAL

ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME. Bernardis LL, Goldman JE *J Neurosci Res* 2: 91-116, 1976 (Eng)  
DL/76NOV145

### SYNDROME, WIEDEMANN-BECKWITH

[HEMIHYPERTROPHY WITH WIEDEMANN-BECKWITH-SYNDROME (AUTHORS TRANS)] Schenck RD *Z Orthop* 114: 354-60, Jun 76 (Ger)  
DL/76NOV277

### SYNTHESIS

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhan-Temirova TS, Bannyi IP, Petunin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr)  
DL/76NOV57

PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES. Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng)  
DL/76NOV141

[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojciechowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol)  
DL/76NOV298

EFFECT OF GLUCOSE AND CYCLIC ADENOSINE 3',5-MONOPHOSPHATE ON THE SYNTHESIS OF SUCCINATE DEHYDROGENASE AND ISOCITRATE LYASE IN *ESCHERICHIA COLI*. Takahashi Y *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng)  
\*DL/76NOV511

[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA] Neifakh SA, Puchkova LV *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus)  
\*DL/76NOV555

### SYNTHESIS, FATTY ACID

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng)  
DL/76NOV371

FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haefner EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng)  
\*DL/76NOV665

### SYNTHESIS, GLYCOGEN

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whitton PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng)  
DL/76NOV370

### SYNTHESIS, GROWTH HORMONE

MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE. Gautvik KM, Kria M *Endocrinology* 98: 344-51, Feb 76 (Eng)  
\*DL/76NOV471

EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS. Gautvik KM, Kria M *Endocrinology* 98: 352-8, Feb 76 (Eng)  
\*DL/76NOV472

### SYNTHESIS, PROTEIN

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng)  
DL/76NOV361

MECHANISM OF THE INHIBITION OF MYOCARDIAL PROTEIN SYNTHESIS DURING OXYGEN DEPRIVATION. Lesch M, Taegtmeyer H, Peterson MB, Vernick R *Am J Physiol* 230: 120-6, Jan 76 (Eng)  
\*DL/76NOV621

### SYNTHESIS, SOMATOSTATIN

STUDIES ON PEPTIDES. LVI. SYNTHESIS OF N1-TYR-SOMATOSTATIN. Fujii N, Yajima H *Chem Pharm Bull (Tokyo)* 23: 2446-9, Oct 75 (Eng)  
\*DL/76NOV456

### SYRIAN HAMSTER

CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET

CELL TUMOR OF THE SYRIAN HAMSTER. Schubart UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng)  
\*DL/76NOV492

### TAURINE

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP 335-45. Kuriyama K, Nakagawa K *In0 Huxtable R, Barbeau A, ed. Taurine. New York, Raven Press, 1975 W3 IN923E* 1975. (Eng)  
\*DL/76NOV639

### TEACHING

GLUCONEOGENESIS: A TEACHING PATHWAY. CRITERIA TO ESTABLISH A METABOLIC PATHWAY. Gabrielli F *J Chem Educ* 53: 86-91, Feb 76 (Eng)  
\*DL/76NOV522

### TECHNICON

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng)  
\*DL/76NOV460

### TEETH

LETTER: PAINFUL TEETH AND DYSGLYCEMIA. Ringsdorf WM Jr, Cheraskin E *JAMA* 231: 23-4, 6 Jan 75 (Eng)  
\*DL/76NOV541

### TELEOST, EMBRYO

[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OCOCYTES AND EMBRYOS OF TELEOSTS] Jurovitskii IUG, Milman LS *Biokhimiia* 40: 962-8, Sep-Oct 75 (Rus)  
\*DL/76NOV440

### TEMPERATURE, AMBIENT

INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL. Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng)  
\*DL/76NOV477

### TEMPERATURE REGULATION

SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA. PP 248-59. Carruthers ME, Taggart P, Salpekar PD, Gatt JA *In0 Schweizer W, ed. Beta-blockers - present status and future prospects. Bern, Huber, 1974. QV 132 B562* 1974. (Eng)  
\*DL/76NOV640

### TENEBRIOS MOLITOR

[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX] Gourdoux L C *R Soc Biol (Paris)* 169: 941-5, 1975 (Fre)  
\*DL/76NOV453

### TERATOGENIC

TERATOGENIC EFFECT OF TOLBUTAMIDE ON THE DEVELOPMENT OF THE SEA URCHIN EMBRYO (PARACENTROTUS LIVIDUS LAMARCK). Hagstrom BE, Lonning S *Experientia* 32: 744-6, 15 Jun 76 (Eng)  
DL/76NOV56

## Diabetes Literature—Keyword Index

### TISSUE, ADIPOSE

#### TEST

[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Eng) DL/76NOV163

[FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM] Starkova NT *Sov Med* 104-10, Sept 75 (Rus) DL/76NOV247

EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS. Gommers A, Genne H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

#### TEST EXACTITUDE

A SYSTEM FOR REPORTING ANALYTICAL RESULTS ACCORDING TO THE ACTUAL LEVEL OF THE TESTS EXACTITUDE. Sobolewski G *Clin Biochem* 8: 409-14, Dec 75 (Eng) \*DL/76NOV647

#### TESTING PROCEDURE

DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLIMANIS SYNDROME AND ASSOCIATED CARDIAC ANOMALY. Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

#### TESTIS

FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haefner EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV655

#### THALASSAEMIA MAJOR

ENDOCRINOPATHY IN THALASSAEMIA MAJOR. McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330

#### THEOPHYLLINE

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYtic RESPONSE IN HEREDITARY DIABETIC MICE. Hayashi S, Sakaguchi T *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE. Schilin J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

#### THERMAL INJURY

ALTERATIONS IN GLUCOSE KINETICS FOLLOWING THERMAL INJURY. Wilmore DW, Mason AD, Pruitt BA Jr *Surg Forum* 26: 81-3, 1975 (Eng) \*DL/76NOV591

#### THERMOPHILIC ACTINOMYCETE RENNIN

PARTIAL CHARACTERIZATION OF A THERMOPHILIC ACTINOMYCETE RENNIN. Laxer S, Pinsky A, Bartoo B *Experientia* 67-75, 1976 (Eng) DL/76NOV55

#### THERMOREGULATION

DEPENDENCE ON AGE OF METHAMPHETAMINE-PRODUCED CHANGES IN THERMOREGULATION AND METABOLISM. Estler CJ *Experientia* 31: 1436-7, 15 Dec 75 (Eng) \*DL/76NOV482

#### THERMOREGULATORY

[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY MECHANISM OF THE RAT (AUTHORS TRANSL)] Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

#### THIAMYLAL

INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

#### THROMBOCYTOPENIC

IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 313-32s, Jul 76 (Eng) DL/76NOV192

#### THYROID

FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID. PP. 44-8. Sailer S *In0 Hauvasti JGAJ*, et al., ed. *Arterial and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [27] DL/76NOV120

PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION. Vanhaest L, Degauque JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV501

#### THYROID FUNCTION

THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT. Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

#### THYROID GLAND

[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPEMIA (AUTHORS TRANSL)] Oravec D, Moravec R *Bratis Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

#### THYROID HORMONE

ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM Yu S, Friedman Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

REGULATION OF DEGRADATION OF THYROTROPIN RELEASING HORMONE BY THYROID HORMONES. Bauer K *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

#### THYROID SLICE

MOLECULAR TRANSPORT IN THYROID SLICES. Paiva M, Sande JV, Swillens S, Dumont JE *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) \*DL/76NOV428

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

#### THYROTROPIN

ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM Yu S, Friedman Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

#### THYROTROPIN RELEASING HORMONE

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE. Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

REGULATION OF DEGRADATION OF THYROTROPIN RELEASING HORMONE BY THYROID HORMONES. Bauer K *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

#### L-THYROXINE

CONVERSION OF L-THYROXINE TO TRIIODO-L-THYROXINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

#### TISSUE, ADIPOSE

NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESIVE AND NONOBESIVE DIABETICS. Belfiore F, LoVecchio L, Borzi V *Metabolism* 25: 723-5, JUL 76 (Eng) DL/76NOV173

EFFECTS OF HALOTHANE ON LIPID METABOLISM IN HUMAN ADIPOSE TISSUE. PP. 842-5. Bennis J, Smith U *In0 Arias A et al., ed. Recent progress in anaesthesiology and resuscitation*. Amsterdam, Excerpta Medica, 1975. W3 EX89 no. 347 1974. (Eng) \*DL/76NOV389

CA24-DEPENDENT ACTIVATION OF PHOSPHORYLASE BY PHOSPHORYLASE KINASE IN ADIPOSE TISSUE. Khoo JC *Biochim Biophys Acta* 422: 87-97, 23 Jan 76 (Eng) \*DL/76NOV433

INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL. Thomas VG, George JC *Environ Physiol*

## Diabetes Literature—Keyword Index

### TISSUE CULTURE

*Biochem* 5: 413-27, 1975 (Eng)  
\*DL/76NOV477

**PURIFICATION AND SOME PROPERTIES OF A MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE.** Tormqvist H, Belfrage P *J Biol Chem* 251: 813-9, 10 Feb 76 (Eng) \*DL/76NOV512

**EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO.** Dominguez MC, Herrera E *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

**[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY]** Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

### TISSUE CULTURE

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehys T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

**LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE.** Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

### TISSUE, FUNICULAR

**[OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO]** Brachet E C *R Soc Biol (Paris)* 169: 1077-80, 1975 (Fre) \*DL/76NOV450

### TISSUE GLYCOGEN

**TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION.** Randall GC, LeCuyer C *Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

### TISSUE TRAUMA

**[CHANGES IN ENERGY METABOLISM IN SEVERE TISSUE TRAUMA]** Aarima M *Duodecim* 91: 1203-12, 1975 (Fin) \*DL/76NOV466

### TOBACCO

**A MECHANISM FOR TOBACCO SMOKE-INDUCED ALLERGY.** Keller KF, Doyle RJ *J Allergy Clin Immunol* 57: 278-82, Mar 76 (Eng) \*DL/76NOV528

### TOLBUTAMIDE

**TERATOGENIC EFFECT OF TOLBUTAMIDE ON THE DEVELOPMENT OF THE SEA URCHIN EMBRYO (PARACENTROTUS LIVIDUS LAMARCK).** Hagstrom BE, Lonning S *Experientia* 32: 744-6, 15 Jun 76 (Eng) DL/76NOV56

**PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS.** Thieszen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTA-**

**MIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

**[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)]** Del Valle Nunez CJ, Aguilar Quera F, Garcia De Pesquera F, Pineda Cuevas G *En Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

**EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS.** El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

### TOLBUTAMIDE, INTRAVENOUS

**[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION]** Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalahti E, Erkkola R, Punnonen R, Raurama L *Acta Pharmacol Toxicol (Kh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

### O-TOLUIDINE METHOD

**[A STUDY OF THE O-TOLUIDINE METHOD FOR GLYCOGEN MEASUREMENT (AUTHORS TRANSL)]** Guinovart JJ, Rosell-Perez M *Rev Esp Fisiol* 31: 317-22, Dec 75 (Spa) \*DL/76NOV573

### TOPOLOGY, MEMBRANE

**MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES.** Orci L *Ciba Found Symp* 41: 267-80, 1976 (Eng) DL/76NOV40

### TORSADES DE POINTES

**[TORSADES DE POINTES (CASE REPORTS)]** Calabrese P, Franchini G, Di Biase M, Latorre A, Lenti ML, Antonelli G *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

### TOXIN, RESPIRATION

**[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA]** Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

### TRACTION DETACHMENT, DIABETIC

**THE MANAGEMENT OF DIABETIC TRACTION DETACHMENT.** Zayed A *Bull Ophthalmol Soc Egypt* 68: 409-13, 1975 (Eng) DL/76NOV16

### TRAFFIC ACCIDENT

**[INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS]** Hankiewicz J, Scieszka M *Wiad Lek* 29: 1311-5, 15 Jul 76 (Pol) DL/76NOV273

**TRANSAMINASE, GLUTAMATE PYRUVATE**

**ACTIVATION BY GTP OF LIVER ADENYLATE CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP.** Kimura N, Nakane K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

### TRANSAMINASE, SERUM

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitnis N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

### TRANSCARBOXYLASE

**MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE.** Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

### TRANSEPITHELIAL TRANSPORT

**MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE.** Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

### TRANSFER, INFORMATION

**INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION.** PP. 63-95 Vassileva-Popova JG, Yanev TK *In Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer.* New York, Plenum Press, 1975, W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399

### TRANSFUSION

**OBSERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN.** Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

### TRANSFUSION, EXCHANGE

**[HYPOGLYCAEMIA IN NEONATES FOLLOWING EXCHANGE TRANSFUSION (AUTHORS TRANSL)]** Hervei S *Monatsschr Kinderheilkd* 124: 548-50, Jul 76 (Eng) DL/76NOV178

### TRANS-DOUBLE BOND

**[EFFECT OF DIETARY FATTY ACIDS WITH TRANS-DOUBLE BONDS]** Thiele OW *Hipokrates* 46: 247-9, Jun 75 (Ger) \*DL/76NOV505

### TRANSMITTER, INTRACELLULAR

**[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION]** Iudaev NA, Afinogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601

## Diabetes Literature—Keyword Index

### TRANSPORT IODIDE

HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

MUTANT OF *ESCHERICHIA COLI* DEFECTIVE IN RESPONSE TO COLICIN K AND IN ACTIVE TRANSPORT. Plate CA *J Bacteriol* 125: 467-74, Feb 76 (Eng) \*DL/76NOV658

### TRANSPORT, AMINO ACID

ENERGETIC COUPLING OF AMINO ACID TRANSPORT. PP. 107-10. Heinz E, Pietrzik C, Geck P, Pfeiffer B *Inn Gardos G, Szasz I*, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV392

### TRANSPORT ATPASE

[ION-DEPENDENT CONFORMATIONAL TRANSITIONS IN TRANSPORT ATPASE MEMBRANE PREPARATIONS]. Raikhman LM, Moshkovskii IuS *Mol Biol* 8: 768-74, Sep-Oct 74 (Rus) \*DL/76NOV553

### TRANSPORT, CALCIUM

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL. Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

FURTHER STUDIES ON THE EFFECT OF PHOSPHOENOLPYRUVATE ON RESPIRATION-DEPENDENT CALCIUM TRANSPORT BY RAT HEART MITOCHONDRIA. Chaudhuri P *Biochim Biophys Acta* 423: 196-202, 16 Feb 76 (Eng) \*DL/76NOV437

### TRANSPORT, CITRATE

REGULATION OF CITRATE TRANSPORT IN RAT LIVER MITOCHONDRIA METABOLIZING PYRUVATE. Stucki JW *FEBS Lett* 61: 171-5, 15 Jan 76 (Eng) \*DL/76NOV486

### TRANSPORT, GLUCOSE

THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES. Olefsky JM *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM. Betz AL, Gilboe DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

### TRANSPORT, INTESTINAL

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOPCALCIUM]. Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV383

THE EFFECT OF ETHOXYQUIN ON THE INTESTINAL TRANSPORT OF GLUCOSE AND WATER IN VITRO. Skaare JU *Acta Pharmacol Toxicol (Kbh)* 38: 174-6, Feb 76 (Eng) \*DL/76NOV606

### TRANSPORT IODIDE

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

### TRANSMURAL MYOCARDIAL INFARCTION

[EFFECT OF PROPRANOLOL AND GLUCOSE, INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT]. Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

### TRANSPLANTABLE ISLET CELL TUMOR

CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER. Schubart UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

### TRANSPLANTATION

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blohme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59: 62-67 Mar 75 (Eng) DL/76NOV241

SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS. Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OCOCYTES AND EMBRYOS OF TELEOSTS]. Iurovitskii IUG, Milman LS *Biokhimiia* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440

### TRANSPLANTATION ISLET

PROCEEDINGS: ISOLATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS IN RAT AND MONKEY. Ballinger W *Ann R Coll Surg Engl* 58: 327, Jul 76 (Eng) DL/76NOV327

### TRANSPLANTATION, KIDNEY

[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION]. Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164

### TRANSPLANTATION, LIVER

HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION. Machado MC, Monteiro da Cunha JE, Margarido NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

### TRANSPLANTATION, PANCREATIC

PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arner P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostrom J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

### TRANSPLANTATION, RENAL

RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE. Thaysen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT. Shons AR, DeShazo CV, Rattazzi L,

Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

### TRANSPORT

K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO. Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN. Pratt OE *Adv Exp Med Biol* 69: 55-75, 1976 (Eng) [59] DL/76NOV300

Possible Role of INSULIN in the TRANSPORT of TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN. Tagliamonte A, DeMontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

CARRIER-MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA. PP. 287-306. Fonyo A, Ligeti E, Palmieri F, Quagliariello E *Inn Gardos G, Szasz I*, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV388

MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS. PP. 167-80. Gardos G, Szasz I, Sarkadi B *Inn Gardos G, Szasz I*, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV403

Modes of COUPLING OF ENERGY WITH TRANSPORT. PP. 85-97. Kotyk A *Inn Gardos G, Szasz I*, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV405

SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM. Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) DL/76NOV426

MOLECULAR TRANSPORT IN INTESTINAL SLICES. Paiva M, Sande JV, Swillens S, Dumont JE *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) DL/76NOV428

MATURATION OF MEMBRANE FUNCTION: TRANSPORT OF AMINO ACID BY RAT ERYTHROID CELLS. Wise WC *J Cell Physiol* 87: 199-201, Dec 75 (Eng) \*DL/76NOV519

TRANSPORT STUDIES IN BACTERIAL MEMBRANE VESICLES. Kaback HR *Science* 186: 882-92, 6 Dec 74 (Eng) [105] \*DL/76NOV586

### TRANSPORT, ACTIVE

ACTIVE TRANSPORT OF ELECTROLYTES AND NONELECTROLYTES IN THE INTESTINAL EPITHELIUM. PP. 99-106. Csaky TZ *Inn Gardos G, Szasz I*, ed. *Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV386

FLEXOELECTRIC MODEL FOR ACTIVE TRANSPORT. PP. 111-25. Petrov AG *Inn Vasileva-Popova JG*, ed. *Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV393

SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOMPHALUS HORTENSIS MULLER). Barber A, Jordana R, Ponz F *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) \*DL/76NOV571

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF

## Diabetes Literature—Keyword Index

### TRANSPORT, ION

#### TRANSPORT, ION

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanlov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> & ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov Iak, Gainutdinov MKh, Salikov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

#### TRANSPORT KINETICS

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-KYLYOXY) VALERIC ACID THERAPY. Kisseebah AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynne V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

#### TRANSPORT MECHANISM

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) DL/76NOV515

#### TRANSPORT, MEMBRANE

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaranta A, Voegeli H *In0 Gards G, Szasz I, ed. Biomembranes0 structure and function*. Amsterdam, North-Holland, 1975. *WJ* FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

#### TRANSPORT, PHOSPHOENOLPYRUVATE

RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA. Sul HS, Shrago E, Shug AI. *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

#### TRANSPORT PROTEIN

POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS. Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

### TRANSPORT, SUGAR

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Muret H, Sachs G, Theeuw E, Kinne-Saffran E, Le Magnen J *Colloque Europeen de physiologie renale. Paris, INSERM*, 1974. *WJ* 300 E89c 1974. (Eng) \*DL/76NOV401

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

#### TRANSPORT SYSTEM

RANDOMIZATION OF MEMBRANE LIPIDS IN RELATION TO TRANSPORT SYSTEM ASSEMBLY IN *ESCHERICHIA COLI*. Thilo L, Overath P *Biochemistry* 15: 328-34, 27 Jan 76 (Eng) \*DL/76NOV424

#### TRANSPORT, TRANSEPITHELIAL

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

#### TRANSPORT, TRIGLYCERIDE

RESISTANCE OF INTESTINAL TRIGLYCERIDE TRANSPORT CAPACITY IN THE RAT TO ADAPTATION TO ALTERED LUMINAL ENVIRONMENT. Wu AL, Bennett Clark S *Am J Clin Nutr* 29: 157-68, Feb 76 (Eng) \*DL/76NOV620

#### TRANSPORTED, ACTIVELY

PROCEEDINGS: EFFECT OF ACTIVELY TRANSPORTED HEXOSSES ON AFFERENT NERVE DISCHARGE FROM RAT SMALL INTESTINE *IN VIVO*. Sanford PA *J Physiol (Lond)* 254: 75P-76P, Jan 76 (Eng) \*DL/76NOV539

#### TRAPYMIN

[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPYMIN. (2) ANALYSIS OF ITS MODE OF ACTION] Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

#### TRAUMA

SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA. PP 248-59. Carruthers ME, Taggart P, Salpekar PD, Gait JA *In0 Schweizer W, ed. Beta-blockers - present status and future prospects*. Bern, Huber, 1974. *QV* 132 B562 1974. (Eng) \*DL/76NOV640

#### TRAUMA, TISSUE

[CHANGES IN ENERGY METABOLISM IN SEVERE TISSUE TRAUMA] Aarima M *Duodecim* 91: 1203-12, 1975 (Fin) \*DL/76NOV466

### TRIGLYCERIDE

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-KYLYOXY) VALERIC ACID THERAPY. Kisseebah AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynne V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

#### TRIGLYCERIDE, PLASMA

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chan G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

#### TRIGLYCERIDE, SERUM

LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS. Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorge NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) \*DL/76NOV463

#### TRIGLYCERIDE TRANSPORT

RESISTANCE OF INTESTINAL TRIGLYCERIDE TRANSPORT CAPACITY IN THE RAT TO ADAPTATION TO ALTERED LUMINAL ENVIRONMENT. Wu AL, Bennett Clark S *Am J Clin Nutr* 29: 157-68, Feb 76 (Eng) \*DL/76NOV620

#### TRIIODO-L-THYRONINE

CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

#### TRITIUM LABELLED

HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE. Kawauchi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

#### TRYPSIN-LIKE

CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhle H, Steiner DF, Lernmark A, Lipsky C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

#### TRYPTAMINE, INDOLEACETIC ACID RATIO

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreux C, Stachow A *Ann Dermatol Syphiligr (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

#### TRYPTOPHAN

POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN. Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

## Diabetes Literature—Keyword Index

### URINARY GLUCOSE

#### TUBERCULOSIS, PULMONARY

[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Sfirileza V, Tudor P, Moise T *Rev Ig [Pneumofiziol]* 25: 39-42, Jan-Mar 76 (Rum) DL/76NOV237

#### TUBEROUS ORGAN

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

#### TUBULE, PROXIMAL

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Safran E, Le Magne J *Int Colloque Européen de physiologie renale. Paris, INSERM, 1974. WJ 300 E89c 1974.* (Eng) \*DL/76NOV401

MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE. Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

#### TUBULE, SEMINIFEROUS

THE ENTRY OF SUBSTANCES INTO THE SEMINIFEROUS TUBULES. PP. 37-57. Setchell BP *Int Mancini RE, Martini L, ed. Male fertility and sterility. London, Academic Press, 1974. W3 PR945R v.5 1974.* (Eng) \*DL/76NOV416

#### TUMOR, ISLET CELL

ISLET CELL TUMORS OF THE PANCREAS. PP. 183-7. Selawy HP *Int Charyulu KK, Sudarshan A, ed. Hormones and cancer. New York, Stratton, 1976. W3 C162GS 1975h.* (Eng) DL/76NOV116

CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER. Schubart UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

#### TUMOR, SPINDLE CELL

SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA. Millard PR, Jerome DW, Millward-Sadler GH *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

#### TURNOVER

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennmalm A *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

#### TURNOVER RATE

DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME. Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525

#### TYROSINE

POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN. Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

#### ULCER, DUODENAL

INHIBITION OF BASAL AND STIMULATED GASTRIC H<sub>2</sub> AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METAMIDE, AN H<sub>2</sub>-HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLOROPLASTY. Juler GL, Dagradi AE, Stempfle SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

#### ULTRASTRUCTURAL

[INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APROPOS OF 2 CASES)] Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL)] Violante A, Nardoni C, Lenza G *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

#### ULTRASTRUCTURAL METHOD

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS PETERSII (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

#### ULTRASTRUCTURE

PLACENTAL CHANGES IN GESTATIONAL DIABETES. AN ULTRASTRUCTURAL STUDY. Jones CJ, Fox H *Obstet Gynecol* 48: 274-80, Sep 76 (Eng) DL/76NOV197

#### UNDECANOIC ACID

RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID. Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng) \*DL/76NOV642

#### UNIVERSITY GROUP DIABETES PROGRAM

[UNIVERSITY GROUP DIABETES PROGRAM. THE UGDP INVESTIGATION REMAINS CLINICALLY UNACCEPTABLE] Aarseth S *Tidsskr Nor Laegeforen* 96: 1148, 10 Aug 76 (Nor) DL/76NOV255

#### UREA

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskin MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

#### UREA NITROGEN

EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP. Prior RL *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

#### UREMIA

DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS. Roed-Petersen K, Thygesen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

#### UREMIC PATIENT

METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS. Avram MM, Lipner HI, Sadiqali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

#### URICEMIA

[URICEMIA IN DIABETES MELLITUS: VARIATIONS AND SIGNIFICANCE] Dutu A, Hincu N, Hoinarescu E *Rev Med Intern [Med Intern]* 28: 227-34, May-Jun 76 (Rum) DL/76NOV234

#### URIDINE

INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES. Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

#### URIDINE DIPHOSPHATE GLUCOSE

EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS. Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

#### URINARY

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskin MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)] Durand D, Prelot M, Raoul Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) DL/76NOV483

EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP. Prior RL *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

#### URINARY GLUCOSE

24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS. Levinsky RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331

## Diabetes Literature—Keyword Index

### URINARY INFECTION

#### URINARY INFECTION

[URINARY INFECTION AND DIABETES MELLITUS. CLINICAL ASPECTS, TREATMENT AND COMPLICATIONS. CONCLUSIONS] Gomez-Arnau JL, Rojas-Hidalgo E *Rev Clin Esp* 141: 441-8, 15 Jun 76 (Spa) \*DL/76NOV229

#### URINARY TRACT INFECTION

ON THE RELATION OF GENITAL TO URINARY TRACT INFECTIONS. DIAGNOSTIC PROBLEMS. PP. 193-9. Fritz H *In: Diagnostic D., et al., ed. Genital infections and their complications. Stockholm, Almqvist & Wiksell, 1975. WC 140 5988p 1974. (Eng)* \*DL/76NOV117

#### URINE

[AMYLASE DETERMINATION IN URINE] Lorentz K, Koch CD *Dtsch Med Wochenschr* 101: 1261-2, 20 Aug 76 (Ger) \*DL/76NOV49

#### URINE CORTISOL

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

#### UROLITHIASIS

[RESULTS OF SURGICAL TREATMENT OF UROLITHIASIS IN DIABETICS] Fryczkowski M, Skop B *Wiad Lek* 29: 1073-7, 15 Jun 76 (Pol) \*DL/76NOV272

#### UTERINE

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

#### VAGOTOMY

EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLORPLASTY. Juler GL, Dagradi AE, Stempic SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) \*DL/76NOV315

#### VAGOTOMY, GASTRIC

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLORPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraus E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) \*DL/76NOV336

#### VALERIC ACID

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN, TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY. Kissebaul AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) \*DL/76NOV383

#### VARANID

[THE ANNUAL GLUCIDO-LIPID CYCLE IN A VARANID OF SENEGAL] Cisse M, Demaille J *C R Soc Biol (Paris)* 169: 1084-9, 1975 (Fre) \*DL/76NOV451

#### VASCULAR COMPLICATION

NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS. Goto Y, Toyota T, Masuda M, Komatsu K, Kuriiki A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) \*DL/76NOV260

#### VASCULAR DISEASE

LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imperato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) \*DL/76NOV320

#### VASCULATURE

THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS. Shalash BA, El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) \*DL/76NOV14

#### VASOACTIVE INTESTINAL PEPTIDE

INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE. Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) \*DL/76NOV87

#### VASUPRESSIN

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) \*DL/76NOV100

#### VELOCITY

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schonbein H, Kline KA, Volger E *Bibl Anat* 13: 91-2, 1975 (Eng) \*DL/76NOV356

#### VENTRICULAR BLOOD FLOW

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjos OD, Miller NE, Riemsma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

#### VENTRICULAR FUNCTION

FACTORS MODIFYING ISCHEMIC ALTERATIONS OF VENTRICULAR FUNCTION AND METABOLISM IN THE INTACT WORKING SWINE HEART. Liedtke AJ *Acta Med Scand [Suppl]* 57-64, 1976 (Eng) \*DL/76NOV615

#### VENTROMEDIAL

PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P *Jr Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

#### VENTROMEDIAL SYNDROME

ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME. Bernards LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) \*DL/76NOV145

#### VERAPAMIL

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) \*DL/76NOV50

#### VESICLE, BACTERIAL MEMBRANE

TRANSPORT STUDIES IN BACTERIAL MEMBRANE VESICLES. Kaback HR *Science* 186: 882-92, 6 Dec 74 (Eng) \*DL/76NOV586

#### VESICLE, MATRIX

LIPIDS OF MATRIX VESICLES. Wuthier RE *Fed Proc* 35: 117-21, Feb 76 (Eng) \*DL/76NOV488

#### VESICLE, PLASMA MEMBRANE

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Saffran E, Le Magnen J *In: Colloque Europeen de physiologie renale. Paris, INSERM, 1974. WS 300 E89c 1974.* (Eng) \*DL/76NOV401

#### VILLI

[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MURATION DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)] Hotz VM, Luthje D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

#### VISCOOSITY, BLOOD

ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY. Hoare EM, Barnes AJ, Dormandy JA *Biochemistry* 13: 21-5, Feb 76 (Eng) \*DL/76NOV11

#### VOMITING

JAMAICAN VOMITING SICKNESS. BIOCHEMICAL INVESTIGATION OF TWO CASES. Tanaka K, Kean EA, Johnson B *N Engl J Med* 295: 461-7, 26 Aug 76 (Eng) \*DL/76NOV182

#### WATER

THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER FRACTION IN RATS. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng) \*DL/76NOV579

THE EFFECT OF ETHOXYQUIN ON THE INTESTINAL TRANSPORT OF GLUCOSE AND WATER IN VITRO. Skaare JU *Acta Pharmacol Toxicol (Kh)* 38: 174-6, Feb 76 (Eng) \*DL/76NOV606

STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS. Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

## Diabetes Literature—Keyword Index

### ZINC, PLASMA

#### WEANING

GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT. Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

#### WEANLING RAT

ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME. Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

#### WEIGHT, BODY

OBSEVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS. Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

#### WEIGHT, MYOCARDIAL

THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER FRACTION IN RATS. Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng) \*DL/76NOV579

#### WEIGHT REDUCTION

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

#### WIEDEMANN-BECKWITH SYNDROME

HEMIHYPERTROPHY WITH WIEDEMANN-BECKWITH-SYNDROME (AUTHORS TRANSL) Schenck RD *Z Orthop* 114: 354-60, Jun 76 (Ger) DL/76NOV277

#### WOMAN

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyoon M, Dusitdin N, Poshachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

#### X-RAY

X-RAY STUDIES OF GLYCOLYTIC ENZYMES. Blake CC *Essays Biochem* 11: 37-79, 1975 (Eng) [67] \*DL/76NOV479

#### YEAST

THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST. Scharff TG, Perry AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng) \*DL/76NOV567

#### YELLOW OBESE MOUSE

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable

YELLOW OBESE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

#### ZINC DEFICIENCY

[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILCH COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM] Kirchgessner M, Roth HP, Schwarz WA Z *Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

#### ZINC, PLASMA

ESTIMATION AND INTERPRETATION ON PLASMA ZINC FRACTIONS. Burns RR, Fell GS *Scott Med J* 21: 153-4, Jul 76 (Eng) DL/76NOV244

11

## Diabetes Literature—Author Index

Subject headings are included only under first author.

### Aarimaa M

[CHANGES IN ENERGY METABOLISM IN SEVERE TISSUE TRAUMA] Aarimaa M *Duodecim* 91: 1203-12, 1975 (Fin) \*DL/76NOV466  
CARBOHYDRATES (metabolism); ENERGY METABOLISM; HUMAN; LIPIDS (metabolism); PROTEINS (metabolism); SHOCK, TRAUMATIC (metabolism); WOUNDS AND INJURIES (metabolism).

### Aarseth S

[UNIVERSITY GROUP DIABETES PROGRAM. THE UGDP INVESTIGATION REMAINS CLINICALLY UNACCEPTABLE] Aarseth S *Tidsskr Nor Laegeforen* 96: 1148, 10 Aug 76 (Nor) DL/76NOV255  
ADULT; CARDIOVASCULAR DISEASES (chemically induced, prevention & control); DIABETES MELLITUS (drug therapy); HUMAN; PLACEBOS; RESEARCH DESIGN; TOLBUTAMIDE (adverse effects, therapeutic use).

### Accary JP

[IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA] Hollande E, Giron B, Lehys T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

### Acher R

MOLECULAR EVOLUTION OF THE POLYPEPTIDE HORMONES. Acher R *Ciba Found Symp* 41: 31-59, 1976 (Eng) [35] DL/76NOV43  
AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); BINDING SITES; EVOLUTION; HORMONES (metabolism); INSULIN; PEPTIDES (metabolism); PITUITARY HORMONES; POSTERIOR; PLACENTAL LACTOGEN; PROINSULIN; PROLACTIN; PROTEIN BINDING; PROTEIN CONFORMATION; REVIEW; SOMATOTROPIN; SPECIES SPECIFICITY; VARIATION (GENETICS).

### Adams PW

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLYOXY) VALERIC ACID THERAPY. Kisselbach AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

### Adams RR

IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 31s-32s, Jul 76 (Eng) DL/76NOV192

### Adibi SA

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

### Adler JH

[OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS] Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) \*DL/76NOV592

### Afanasyeva GA

[MODIFICATION OF THE FERROCYANIDE VERSION OF THE GLUCOSE OXIDASE METHOD FOR MEASURING GLUCOSE] Afanasyeva GA, Shcherbukhin VD *Prikl Biokhim Mikrobiol* 11: 460-2, May-Jun 75 (Rus) \*DL/76NOV61

ENGLISH ABSTRACT: FERROCYANIDES (metabolism); GLUCOSE OXIDASE; GLUCOSE (analysis); INDICATORS AND REAGENTS; SPECTROPHOTOMETRY (methods); STARCH (analysis).

### Afinogenova SA

[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION] Iudaea NA, Afinogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601

### Agar NS

[IN VITRO METABOLISM OF RED BLOOD CELLS FROM NEWBORN AND ADULT GOATS] Agar NS, Harley JD *Biol Neonate* 28: 113-7, 1976 (Eng) \*DL/76NOV444  
ADENOSINE TRIPHOSPHATE (blood); AGE FACTORS; ANIMAL EXPERIMENTS; ANIMALS, NEWBORN (blood); DIPHOSPHOGLYCERIC ACIDS (blood); ERYTHROCYTES (metabolism); FRUCTOSEDIOPHOSPHATE ALDOLASE (blood); GLUCOSEPHOSPHATE DEHYDROGENASE (blood); GLUCOSEPHOSPHATE ISOMERASE (blood); GLUTATHIONE REDUCTASE (blood); GLUTATHIONE (blood); GOATS (blood); HEXOKINASE (blood); LACTATE DEHYDROGENASE (blood); PHOSPHOFRUCTOKINASE (blood); PHOSPHOGLUCONATE DEHYDROGENASE (blood); PYRUVATE KINASE (blood).

### Aguilar Quero F

[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jul 76 (Spa) DL/76NOV321

### Aikawa T

ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT. Kitagawa T, Aikawa T *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) DL/76NOV86

### Aintablian A

REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE. Hamby RI, Sherman L, Mehta J, Aintablian A *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

### Aiyoshi Y

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND

IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

### Akanuma Y

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

### Albano O

[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

### Alcaniz J

[SECRETION OF GROWTH HORMONE IN ACROMEGALY] Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

### Aleksandrov AA

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganova RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

### Alexandrov A

ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION. PP. 43-52. Vassileva-Popova JG, Aleksandrov A, Kotarov M *In Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p.* (Eng) \*DL/76NOV387

### Alfarsi S

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLYOXY) VALERIC ACID THERAPY. Kisselbach AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

### Al-Aziz AJ

LACK OF CENTRAL AUTONOMIC REGULATION OF SUBSTRATE DURING EARLY FASTING IN MAN. Brodows RG, Campbell RG, Al-Aziz AJ *Metabolism* 25: 803-7, JUL 76 (Eng) DL/76NOV176

### Allard R

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY  $\text{H-LYSINE}$  INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

## Diabetes Literature—Author Index

Allen DO

Allen DO

DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYTIC ACTION OF PARATHYROID HORMONE. Thajchayapong P, Queener SF, McClelland R, Allen DO, Bell NH. *Horm Metab Res* 8: 190-5, May 76 (Eng) \*DL/76NOV71

ON THE LIPOLYTIC ACTION OF PARATHYROID HORMONE IN MAN. Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH. *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS. Allen DO, Katocs AS Jr, Largis EE, Ashmore J. *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

ADIPOSE TISSUE (metabolism, drug effects); ANIMAL EXPERIMENTS; EPINEPHRINE (pharmacodynamics); KINETICS; LIPOASE (metabolism); LIPOID MOBILIZATION (drug effects); MATHEMATICS; PERfusion; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Alpert LC

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Alpert LC, Bawer JR, Patel YC, Reichlin S. *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

ANIMAL EXPERIMENTS; FEMALE; FLUORESCENT ANTIBODY TECHNIC; HYPOTHALAMUS (metabolism); HYPOTHALAMUS, ANTERIOR (immunology, metabolism); MALE; NEURONS (metabolism, immunology); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (metabolism, immunology); SOMATOTROPIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Altomonte L

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG. *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

Amanuma H

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION-mediated BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y. *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

Ames AC

LACTIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR. Ames AC, Cobbold S, Maddock J. *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

ACETOACETATES (blood); ACID-BASE EQUILIBRIUM; ACIDOSIS (drug therapy); Apgar Score; BLOOD SUGAR; COMPARATIVE STUDY; FEMALE; FRUCTOSE (therapeutic use); GLUCOSE (therapeutic use); HUMAN; HYDROXYBUTYRATES (blood); KETOSIS (drug therapy); LABOR COMPLICATIONS (blood); LACTATES (blood); PREGNANCY; PYRUVATES (blood); SORBITOL (therapeutic use).

Amiel-Tison C

[THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN DEPENDENT DIABETIC PREGNANCIES] Tchobrousky C, Cedard L, Rouvillois JL, Amiel-Tison C. *J Gynecol Obstet Biol Reprod*

(Paris) 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

Andel M

[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)] Andel M, Brodak V, Kuhn E. *Cas Lek Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

ADULT; BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (administration & dosage); HUMAN; MALE. (pharmacodynamics); HUMAN; MALE.

Anderson GH

METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE. Jeejeebhoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliis EB. *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

Anderson JW

BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN. Kiehm TG, Anderson JW, Ward K. *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

Anderson NV

EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG. Mahaffey MB, Anderson NV. *Am J Vet Res* 37: 947-52, Aug 76 (Eng) DL/76NOV319

Andersson A

LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Berne C, Andersson A. *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

Andreev DC

INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION. Penchev II, Shishcheva AC, Ditzov SP, Andreev DC, Sirakov LM. *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

Andreev VS

[IDENTIFICATION OF THE INHIBITION TYPE OF HEXOKINASE AND PYRUVATE KINASE ACTIVITY BY CA2+] Genin MS, Andreev VS. *Biokhimiia* 40: 885-9, Jul-Aug 75 (Rus) \*DL/76NOV644

Andrew A

AN EXPERIMENTAL INVESTIGATION INTO THE POSSIBLE NEURAL CREST ORIGIN OF PANCREATIC APUD (ISLET) CELLS. Andrew A. *J Embryol Exp Morphol* 35: 577-93, Jun 76 (Eng) DL/76NOV135

ANIMAL EXPERIMENTS (analysis); CELL MOVEMENT; CHICK EMBRYO; DOPA; GLANGLIA (cytology); GLANGLIA, AUTONOMIC; GLANGLIA, SPINAL; ISLANDS OF LANGERHANS (embryology); MICROSCOPY; FLUORESCENCE; NERVOUS SYSTEM (embryology); QUAIL; ROTATION.

Andrew G

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chan G, Schiff D. *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

BIRTH WEIGHT; DRUG COMBINATIONS; FATTY ACIDS, NONESTERIFIED (blood);

GESTATIONAL AGE; GLYCERIN (administration & dosage); HUMAN; INFANT NUTRITION; INFANT, NEWBORN; INFANT, PREMATURE; LECITHINS (administration & dosage); LIPIDS (metabolism); OILS (administration & dosage); PARENTERAL FEEDING; TIME FACTORS; TRIGLYCERIDES (blood).

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D. *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

BILIRUBIN (blood); CELL MEMBRANE (metabolism); DRUG COMBINATIONS; ERYTHROCYTES (metabolism); FATTY ACIDS, NONESTERIFIED (blood); GLYCERIN (administration & dosage); HUMAN; IN VITRO; INFANT NUTRITION; INFANT, NEWBORN; LECITHINS (administration & dosage); LIPIDS (metabolism); OILS (administration & dosage); PARENTERAL FEEDING; SERUM ALBUMIN (metabolism).

Angielski S

[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojciechowski C. *Acta Pol Pharm* 33: 301-5, 1976 (Pol) DL/76NOV298

Angulo P

[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HAEMOGLOBINURIA (AUTHORS TRANSL)] Angulo P, Fernandez J, Lasierri J, Lopez-Borrasca A. *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

BLOOD PLATELET (physiology); ENGLISH ABSTRACT; HEMOGLOBINURIA, PAROXYSMAL (blood); HUMAN; INSULIN (pharmacodynamics); PLATELET AGGREGATION (drug effects); STIMULATION, CHEMICAL.

Anraku Y

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION mediated BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y. *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

Antonelli G

[TORSADES DE POINTES (CASE REPORTS)] Calabrese P, Franchini G, Di Biase M, Latorre A, Lenti ML, Antonelli G. *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

Antoniu JF

PROTEIN PHOSPHORYLATION AND HORMONE ACTION. Cohen P, Antoniu JF, Nimmo HG, Yeaman SJ. *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41

Anwer MS

GLUCOSE UTILIZATION AND RECYCLING IN PONIES. Anwer MS, Chapman TE, Gronwall R. *Am J Physiol* 230: 138-42, Jan 76 (Eng) \*DL/76NOV623

ANIMAL EXPERIMENTS; BLOOD SUGAR; CARBON RADIOISOTOPES; FASTING; GLUCOSE (metabolism); HORSES (metabolism); TRITIUM; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Apollonj MC

CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL

## Diabetes Literature—Author Index

Austin K

**BLOOD LYMPHOCYTES.** Apollonj MC, Vasile C, Floridi A, Natali PG *Immunol Commun* 4: 453-63, 1975 (Eng) \*DL/76NOV654

**CARBON DIOXIDE** (metabolism); **GLUCOSE** (metabolism); **HUMAN**; **LACTATES** (metabolism); **LYMPHOCYTE** TRANSFORMATION (drug effects); **PENTOSES** (metabolism); **PLANT AGGLUTININS** (pharmacodynamics).

**Apple DJ**

**EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC.** Apple DJ, Wyhinny GJ, Goldberg MF, Polley EH *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

**ADULT**; **ANIMAL EXPERIMENTS**; **ARGON**; **BURNS** (etiology, pathology); **EYE DISEASES** (surgery); **FEAR**; **HUMAN**; **LASER COAGULATION** (adverse effects); **MALE**; **MIDDLE AGE**; **MONKEYS**; **OPTIC DISK** (injuries, pathology); **OPTIC NERVE** (injuries); **RHESUS MONKEYS**.

**Arimura A**

**BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS.** Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

**ANIMAL EXPERIMENTS**; **ANTIBODIES**; **ELECTROSHOCK**; **MALE**; **PITUITARY GLAND** (analysis); **RATS**; **SOMATOTROPIN RELEASE INHIBITING HORMONE** (pharmacodynamics, immunology); **SOMATOTROPIN** (blood, analysis, secretion); **STRESS** (blood); **UNITED STATES GOVERNMENT SUPPORTED**, N.I.H.; **UNITED STATES GOVERNMENT SUPPORTED**, NON-N.I.H.

**INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIA-MLAL AND MORPHINE IN THE RAT.** Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

**Armstrong ML**

**ATHEROSCLEROSIS IN RHECUS AND CYNOMOLGUS MONKEYS.** Armstrong ML *Primates Med* 9: 16-40, 1976 (Eng) [67] \*DL/76NOV673

**ANIMAL EXPERIMENTS**; **AORTA** (pathology); **ARTERIOSCLEROSIS** (etiology, pathology); **CHOLESTEROL** (blood); **COMPARATIVE STUDY**; **CORONARY VESSELS** (pathology); **CYNOMOLGUS MONKEYS**, DEATH, SUDDEN; **DIET**, ATHEROGENIC; **DISEASE MODELS**, ANIMAL; **GANGRENE** (pathology); **HUMAN**; **LIPOPROTEINS** (blood); **MACACA**; **MONKEYS**; **MYOCARDIAL INFARCT** (pathology); **REVIEW**; **RHECUS MONKEYS**; **TRIGLYCERIDES** (blood); **UNITED STATES GOVERNMENT SUPPORTED**, N.I.H.

**Armstrong RB**

**PHOSPHOFRUCTOKINASE AND SUCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE.** Ianuzzo CD, Armstrong RB *Horm Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV78

**Arnep P**

**PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES.** Lundgren G, Arnep P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

**Aronoff SL**

**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA**

**INDIANS**; **ARONOFF SL**; **BENNETT PH**, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

**ADULT**; **ARGININE** (diagnostic use); **ARIZONA**; **BLOOD SUGAR** (analysis); **FASTING**; **FEMALE**; **GLUCAGON** (blood, secretion); **HUMAN**; **IMMUNE SERUMS**; **INDIANS**, NORTH AMERICAN; **INSULIN** (blood); **MALE**; **PREDIABETIC STATE** (blood, diagnosis).

**Aronow WS**

**LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS.** Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorge NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) \*DL/76NOV463

**CHOLESTEROL** (blood); **CLINICAL RESEARCH**; **CORONARY DISEASE** (blood); **DEPRESSION**, CHEMICAL; **FEMALE**; **GLYCOLATES** (pharmacodynamics); **HALOFENATE** (pharmacodynamics); **HUMAN**; **MALE**; **MIDDLE AGE**; **PLACEBOS**; **TIME FACTORS**; **TRIGLYCERIDES** (blood); **URIC ACID** (blood).

**Ashcroft SJ**

**THE CONTROL OF INSULIN RELEASE BY SUGARS.** Ashcroft SJ *Ciba Found Symp* 41: 117-39, 1976 (Eng) [58] DL/76NOV37

**ACETYLGLUCOSAMINE** (pharmacodynamics); **ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (pharmacodynamics); **ANIMAL EXPERIMENTS** (analysis); **CAFFEINE** (pharmacodynamics); **CALCIUM** (pharmacodynamics); **CARBOHYDRATES** (pharmacodynamics); **GLUCOSE** (pharmacodynamics); **INSULIN** (secretion); **ISLANDS OF LANGERHANS** (drug effects, secretion); **KINETICS**; **LEUCINE** (pharmacodynamics); **MICE**; **PERFUSION**; **POTASSIUM** (pharmacodynamics); **RATS**; **RECEPTORS**, DRUG; **REVIEW**; **STARVATION**; **TOLBUTAMIDE** (pharmacodynamics).

**THE EFFECT OF N-ACVYLGLUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT.** Ashcroft SJ, Crossley JR, Crossley PR *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

**ACETYLGLUCOSAMINE** (pharmacodynamics); **ANIMAL EXPERIMENTS** (analysis); **COMPARATIVE STUDY**; **GLUCOSAMINE** (analogs & derivatives); **GLUCOSE** (pharmacodynamics); **IN VITRO**; **INSULIN** (biosynthesis, secretion); **ISLANDS OF LANGERHANS** (metabolism); **MALE**; **MANNOHEPTULOSE** (pharmacodynamics); **RATS**.

**Ashline HC**

**GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES.** Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL *Anal Chem* 48: 1386-94, Aug 76 (Eng) DL/76NOV316

**Ashmore J**

**PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS.** Allen DO, Katocs AS Jr, Largin EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

**Asmal AC**

**RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS.** Page MM, Asmal AC, Edwards CR *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

**Assandri A**

**COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN.** Assandri A, Perazzi A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

**ACETAMINOPHEN** (pharmacodynamics); **ASPIRIN** (pharmacodynamics); **BINDING SITES** (drug effects); **DEXAMETHASONE** (pharmacodynamics); **DRUG INTERACTIONS**; **HUMAN**; **INDOMETHACIN** (pharmacodynamics); **PHENOBARBITAL** (pharmacodynamics); **PHENYLBUTAZONE** (pharmacodynamics); **PHTHALAZINES** (metabolism, pharmacodynamics); **PROTEIN BINDING** (drug effects); **PYRIDAZINES** (metabolism); **SERUM ALBUMIN** (metabolism); **TEMPERATURE**; **TOLBUTAMIDE** (pharmacodynamics); **WARFARIN** (pharmacodynamics).

**Atkins TW**

**DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESE HYPERGLYCAEMIC MICE.** Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

**Atkinson M**

**OESOPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS.** Stewart IM, Hosking DJ, Preston BJ, Atkinson M *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

**Atwater I**

**PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM.** Atwater I, Beigelman PM *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

**ANIMAL EXPERIMENTS** (analysis); **CALCIUM** (physiology); **ISLANDS OF LANGERHANS** (physiology); **MAGNESIUM** (physiology); **MEMBRANE POTENTIALS** (drug effects); **MICE**.

**Auciello N**

**THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES.** Cedola N, Cabarrus A, Auciello N, Doria I, Ponce de Leon H, Baylon N *Acta Diabetol Lat 12*: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

**Aumailley M**

**ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT.** Aumailley M, Razaka G, Larue J, Bricaud H *C R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) \*DL/76NOV449

**AMINOPROPIONITRILE** (pharmacodynamics); **ANIMAL EXPERIMENTS**; **AORTA** (drug effects, pathology, enzymology); **ARTERIOSCLEROSIS** (enzymology); **ATHEROSCLEROSIS** (enzymology); **CHOLESTEROL** (pharmacodynamics, blood); **COLLAGEN** (biosynthesis); **CREATINE KINASE** (analysis); **DIET**, ATHEROGENIC; **ENGLISH ABSTRACT**; **GLUCURONIDASE** (analysis); **LACTATE DEHYDROGENASE** (analysis); **MALATE DEHYDROGENASE** (analysis); **PROLINE HYDROXYLASE** (analysis); **PROTEINS** (analysis); **RABBITS**.

**Austin K**

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fiedler J

## Diabetes Literature—Author Index

### Avogaro P

*Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) \*DL/76NOV310

### Avogaro P

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

ADOLESCENCE; ADULT; AGED; COFFEE; ENGLISH ABSTRACT; FATTY ACIDS, NESTERIFIED (metabolism); FEMALE; HUMAN; HYDROCORTISONE (metabolism); LIPID MOBILIZATION; MALE; MIDDLE AGE.

### Avram MM

METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS. Avram MM, Lipner HI, Sadigari R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) \*DL/76NOV265

ADULT; AGED; BLOOD SUGAR (metabolism); DIABETES MELLITUS, JUVENILE (metabolism); DIABETIC NEPHROPATHIES (metabolism); FEMALE; HEMODIALYSIS; HUMAN; INSULIN (metabolism); MALE; MIDDLE AGE; PEPTIDES (metabolism); RENIN (blood); SOMATOTROPIN (metabolism); THYROID HORMONES (metabolism); TRIGLYCERIDES (metabolism); UREMIA (metabolism).

### Awazu S

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE. Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism); ESCHERICHIA COLI (metabolism); ISOLEUCINE (metabolism); KINETICS; MODELS, BIOLOGICAL; PROTEIN BINDING; VALINE (metabolism).

### Azzone GF

MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. I. COUPLING BETWEEN WEAK ELECTROLYTE FLUXES. Azzone GF, Massari S, Pozzan T *Biophys Acta* 423: 15-26, 15 Jan 76 (Eng) \*DL/76NOV434

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; ETHYLMALEIMIDE (pharmacodynamics); IN VITRO; MERSALYL (pharmacodynamics); MITOCHONDRIA, LIVER (metabolism, drug effects); MITOCHONDRIAL CONTRACTION (drug effects); MITOCHONDRIAL SWELLING (drug effects); NIGERICIN (pharmacodynamics); PHOSPHATES, INORGANIC (metabolism, pharmacodynamics); RATS; SULFYDRYL REAGENTS (pharmacodynamics); VALINOMYCIN (pharmacodynamics).

MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. II. COUPLING BETWEEN STRONG ELECTROLYTE FLUXES. Azzone GF, Massari S, Pozzan T *Biophys Acta* 423: 27-41, 15 Jan 76 (Eng) \*DL/76NOV435

ANIMAL EXPERIMENTS; CARBONYL CYANIDE P-TRIFLUOROMETHOXYPHENYL-HYDRAZONE (pharmacodynamics); IN VITRO; MALONATES (pharmacodynamics); MERSALYL (pharmacodynamics); MITOCHONDRIA, LIVER (metabolism, drug effects); MITOCHONDRIAL CONTRACTION (drug effects); MITOCHONDRIAL SWELLING (drug effects); MODELS, BIOLOGICAL; OXYGEN CONSUMPTION (drug effects); PHILIPPINES; POTASSIUM (metabolism, pharmacodynamics); RATS; ROTENONE (pharmacodynamics); THIOCYANATES (pharmacodynamics); VALINOMYCIN (pharmacodynamics).

### Baba Y

STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMIC PP. 232-42. Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfien A *In0 Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p* 1974. (Eng) \*DL/76NOV414

### Bacchella T

HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION. Machado MC, Monteiro da Cunha ME, Margarido NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) \*DL/76NOV81

### Bachelard HS

HOW DOES GLUCOSE ENTER BRAIN CELLS PP. 126-43. Bachelard HS *In0 Ingvar DH, Lassen NA, ed. Brain work0 the coupling of function metabolism and blood flow in the brain. Copenhagen, Munksgaard, 1975. W3 AL36 1974b, (Eng) [53]* \*DL/76NOV397

ANIMAL EXPERIMENTS; ARABINOSE (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); BLOOD SUGAR (metabolism); BRAIN (metabolism); CATS; CEREBRAL CORTEX (metabolism); CHORDOID PLEXUS (metabolism); DEOXYGLUCOSE (pharmacodynamics); DIFFUSION; DOGS; FROGS; GLUCOSE (metabolism); GUINEA PIGS; KINETICS; METHYLGLUCOSIDES (pharmacodynamics); MICE; MONOGRAPH; RATS; REVIEW; SHEEP; SODIUM (metabolism); SYNAPTOSOMES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Bailey CJ

DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE. Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) \*DL/76NOV80

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); COMPARATIVE STUDY; DIURNAL RHYTHM; EATING; INSULIN (blood); MICE; MICE, INBRED C57BL; MICE, OBESE; OBESITY (metabolism); THINNESS (metabolism).

### Bailey JE

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

### Bajaj SC

INHIBITION OF BASAL AND STIMULATED GASTRIC H& PEPINS SECRETION IN DUODENAL ULCER PATIENTS BY METIAMIDE, AN H-2 HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) \*DL/76NOV305

ADOLESCENCE; ADULT; DUODENAL ULCER (metabolism); FEMALE; GASTRIC JUICE (secretion); HISTAMINE (diagnostic use); HUMAN; HYPOGLYCEMIA (physiopathology); INSULIN (diagnostic use); MALE; METIAMIDE (blood, pharmacodynamics); MIDDLE AGE; PEPSIN (secretion); THIOUREA (analog & derivatives); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

### Baker L

HYPERSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) \*DL/76NOV204

### Baker RA

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinchart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

### Bakiri F

[THE EFFECTS OF ARGININE AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsaie J, Poey J, Bakiri F, Reggabi M, Benouniche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

### Balasse EO

TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES. Clumeck N, De Troyer A, Naeije R, Somers G, Smeekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) \*DL/76NOV22

### Balfe JW

SEVERE SALT POISONING IN AN INFANT. Saunders N, Balfe JW, Laski B *J Pediatr* 88: 258-61, Feb 76 (Eng) \*DL/76NOV534

### Ballard FJ

SELECTIVE CONTROL OF THE DEGRADATION OF NORMAL AND ABERRANT PROTEINS IN REUBER H35 HEPATOMA CELLS. Knowles SE, Ballard FJ *Biochem J* 156: 609-17, 15 Jun 76 (Eng) \*DL/76NOV372

### Ballinger W

PROCEEDINGS: ISOLATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS IN RAT AND MONKEY. Ballinger W *Ann R Coll Surg Engl* 58: 327, Jul 76 (Eng) \*DL/76NOV327

ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (therapy); ISLANDS OF LANGERHANS (transplantation); MONKEYS; RATS; TRANSPLANTATION, HOMOLOGOUS (transplantation).

### Banchini E

[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED] Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Sampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) \*DL/76NOV1

### Bannister DW

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

### Bannyi IP

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOKAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhantemirova TS, Bannyi IP, Petuniun PA, Timashova IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) \*DL/76NOV57

### Barber A

SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOPHORALUS HORTENSIS MULLER). Barber A, Jordana R, Ponz F *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) \*DL/76NOV571

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CALCIUM (pharmacodynamics); CARBOHYDRATES (metabolism); GASTROINTESTINAL MOTILITY (drug effects); INTESTINAL ABSORPTION; MAGNESIUM (pharmacodynamics); OXYGEN CONSUMPTION; POTASSIUM

## Diabetes Literature—Author Index

Bell NH

(pharmacodynamics); SNAILS (metabolism); SODIUM (pharmacodynamics).

**Barber DM**  
**BIOCHEMICAL STUDIES OF THE COLLAPSE SYNDROME IN SUCKLED CALVES.** Barber DM, Doxey DL. *Vet Rec* 97: 424-8, 29 Nov 75 (Eng) \*DL/76NOV59

ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CATTLE DISEASES (blood); CATTLE; CHLORIDES (blood); DIARRHEA (veterinary, blood); HEMATOCRIT; MAGNESIUM (blood); PHOSPHATES, INORGANIC (blood); POTASSIUM (blood); SYNDROME (veterinary).

**Barbosa J**  
**HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY.** Barbosa J, Noreen H, Emme L, Goetz L, Simons R, de Leiva A, Najarian J, Yunis EJ. *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV25

ADULT; ANTIGENIC DETERMINANTS; DIABETIC ANGIOPATHIES (immunology); FEMALE; HISTOCOMPATIBILITY ANTIGENS; HUMAN; KIDNEY FAILURE, CHRONIC (immunology, surgery); KIDNEY (transplantation); MALE; MIDDLE AGE; TISSUE DONORS; TRANSPLANTATION; HOMOLOGOUS (transplantation); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

**Barcelo B**  
**[SECRETION OF GROWTH HORMONE IN AROMEGALY]** Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J. *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

ACROMEGALY (metabolism); ARGinine (pharmacodynamics); COMPARATIVE STUDY; ENGLISH ABSTRACT; GLUCOSE (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); PITUITARY GLAND (secretion); SOMATOTROPIN (secretion).

**Barnes AJ**  
**ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY.** Hoare EM, Barnes AJ, Dormandy JA. *Biorheology* 13: 21-3, Feb 76 (Eng) DL/76NOV11

**Barnes PR**  
**POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS.** Ryser HJ, Termini TE, Barnes PR. *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

**Bartoov B**  
**PARTIAL CHARACTERIZATION OF A THERMOPHILIC ACTINOMYCETE RENNIN.** Laxer S, Pinsky A, Bartoov B. *Experientia* 67-75, 1976 (Eng) DL/76NOV55

**Bashore R**  
**PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS.** Sende P, Pantelakis N, Suzuki K, Bashore R. *Obstet Gynecol* 48: 385-415, Jul 76 (Eng) DL/76NOV193

**Baskakova GM**  
**[CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMMOBILIZATION]** Platonova RD, Baskakova GM, Chepurnov SA. *Biol Nauki* 37-40, 1975 (Rus) \*DL/76NOV443

**Bastenie PA**  
**PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION.** Vanhaelst L, Degate JP, Golstein J, Bastenie PA. *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV501

**Bates P**  
**MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS.** Millward DJ, Nnanyelugo DO, Bates P, Heard CR. *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

**Bauer K**  
**REGULATION OF DEGRADATION OF THYROTROPIN RELEASING HORMONE BY THYROID HORMONES.** Bauer K. *Nature* 259: 591-3, 19 Feb 76 (Eng) \*DL/76NOV557

ANIMAL EXPERIMENTS; ENZYMES (blood); FEMALE; KINETICS; MALE; PROPYLTHIOURACIL (pharmacodynamics); RATS; SEX FACTORS; THYROID HORMONES (physiology); THYROTROPIN RELEASING HORMONE (metabolism); TRIIODOTHYRONINE (pharmacodynamics).

**Bauer P**  
**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M. *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

**Baumann G**  
**PROLONGED CORTICOTROPIC ACTION OF SYNTHETIC HUMAN ACTH IN MAN.** Baumgaertner G, Felber JP. *J Clin Endocrinol Metab* 42: 160-3, Jan 76 (Eng) \*DL/76NOV523

ADULT; CORTICOTROPIN (pharmacodynamics, analogs & derivatives); HORMONES, SYNTHETIC (pharmacodynamics); HUMAN; MALE; PEPTIDE FRAGMENTS (pharmacodynamics); SWINE; 11-HYDROXYCORTICOSTEROIDS (blood).

**Baumann K**  
**MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE.** Kinne R, Baumann K. *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

**Baylor N**  
**THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES.** Cedola N, Cabarrus A, Auciello N, Doria I, Ponce de Leon H, Baylor N. *Acta Diabetol Lat I* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

**Beck DP**  
**BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS.** Beck DP, Greenawalt JW. *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

ANTIMYCIN A (pharmacodynamics); CELL DIFFERENTIATION; CELL FRACTIONATION; FATTY ACIDS, NONESTERIFIED (biosynthesis); GLUCOSE (metabolism); KINETICS; MEMBRANES (ultrastructure); MITOCHONDRIA (metabolism, ultrastructure); NEUROSPORA CRASSA (metabolism, ultrastructure); NEUROSPORA (metabolism); OLIGOMYCIN (pharmacodynamics); OXIDATIVE PHOSPHORYLATION; PHOSPHATIDYL CHOLINE (biosynthesis); PHOSPHATIDYL ETHANOLAMINE (biosynthesis); PHOSPHATIDYL GLYCEROLS (biosynthesis); PHOSPHATIDYL SERINE (biosynthesis); PHOSPHOLIPIDS (biosynthesis); STEROLS (biosynthesis); SUCCINATES (metabolism); SUCROSE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

**Beck N**  
**EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION.** Beck N, Webster SK. *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

ACIDOSIS (metabolism); ANIMAL EXPERIMENTS; BICARBONATES (blood); BONE RESORPTION; CALCITONIN (pharmacodynamics); CALCIUM (metabolism, blood, urine); GLOMERULAR FILTRATION RATE; KIDNEY TUBULES (metabolism); PARATHYROID HORMONE (pharmacodynamics); PHILIPPINES; RATS.

**Bednarik B**  
**SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS.** Sladek T, Filkova J, Pejchalova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B. *Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

**Beger HG**  
**EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLORPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION.** Bittner R, Beger HG, Kraas E, Gogler H. *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

**Begg IS**  
**CLINICO-PATHOLOGICAL STUDY OF AN ORGANIZED PLAQUE IN EXUDATIVE DIABETIC MACULOPATHY.** Begg IS, Rootman J. *Can J Ophthalmol* 11: 197-202, Jul 76 (Eng) DL/76NOV25

**CASE REPORT: DIABETIC ANGIOPATHIES** (pathology); DIABETIC RETINOPATHY (pathology); FEMALE; FLUORESCENCE ANGIOGRAPHY; HUMAN; MACULA LUTEA (pathology); MACULAR DEGENERATION (pathology); MIDDLE AGE; PIGMENT EPITHELIUM OF EYE (pathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

**Beigelman PM**  
**PROCEEDINGS: ELECTRICAL RESPONSE OF MOUSE PANCREATIC BETA-CELL TO REMOVAL OF CALCIUM MAGNESIUM.** Atwater I, Beigelman PM. *J Physiol (Lond)* 258: 13P-14P, Jun 76 (Eng) DL/76NOV143

**Belfiore F**  
**NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBES AND NONOBES DIABETICS.** Belfiore F, LoVecchio L, Borzi V. *Metabolism* 25: 723-5, Jul 76 (Eng) DL/76NOV173

**ADIPOSE TISSUE** (enzymology); AGED; BODY WEIGHT; CLINICAL RESEARCH; COMPARATIVE STUDY; DIABETES MELLITUS (enzymology); FEMALE; GLUCOSEOPHOSPHATE DEHYDROGENASE (analysis); HUMAN; MALATE DEHYDROGENASE (analysis); MALE; MIDDLE AGE; OBESITY (enzymology).

**Belfrage P**  
**PURIFICATION AND SOME PROPERTIES OF A MONOACYGLYCYEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE.** Tornqvist H, Belfrage P. *J Biol Chem* 251: 813-9, 10 Feb 76 (Eng) \*DL/76NOV512

**Bell NH**  
**DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYtic ACTION OF PARATHYROID HORMONE.** Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH. *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

## Diabetes Literature—Author Index

### Bengtsson U

ON THE LIPOLYTIC ACTION OF PARATHYROID HORMONE IN MAN. Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

### Bengtsson U

[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION] Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164  
CARDIOVASCULAR DISEASES (etiology); DIABETIC ANGIOPATHIES (etiology); DIABETIC NEPHROPATHIES (surgery); ENGLISH ABSTRACT; HUMAN; KIDNEY (transplantation); POSTOPERATIVE COMPLICATIONS (mortality); TRANSPLANTATION, HOMOLOGOUS (transplantation).

### Bennett Clark S

RESISTANCE OF INTESTINAL TRIGLYCERIDE TRANSPORT CAPACITY IN THE RAT TO ADAPTATION TO ALTERED LUMINAL ENVIRONMENT. Wu AL, Bennett Clark S *Am J Clin Nutr* 29: 157-68, Feb 76 (Eng) \*DL/76NOV620

### Bennett PH

NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS. Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

### Bennett T

CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS. Bennett T, Hosking DJ, Hampton JR *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27  
ADULT; AGED; APNEA (physiopathology); AUTONOMIC NERVOUS SYSTEM (physiopathology); BLOOD PRESSURE; CHILD; DIABETES MELLITUS (complications, physiopathology); FEMALE; HEART RATE; HEMODYNAMICS; HUMAN; MALE; MIDDLE AGE; REFLEX; STRESS; PSYCHOLOGICAL (physiology); VAGUS NERVE (physiopathology); VASCULAR RESISTANCE; WATER.

### Bennis J

EFFECTS OF HALOTHANE ON LIPID METABOLISM IN HUMAN ADIPOSE TISSUE. PP. 842-5. Bennis J, Smith U *In 6 Arias A et al., ed. Recent progress in anaesthesiology and resuscitation*. Amsterdam, Excerpta Medica, 1975. W3 EX89 no. 347 1974. (Eng) \*DL/76NOV389

ADIPOSE TISSUE (metabolism); ANESTHESIA, INHALATION; HALOTHANE (pharmacodynamics); HUMAN; LIPIDS (metabolism); MONOGRAPH.

### Benouiche M

[THE EFFECTS OF ARGININE AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsair J, Poey J, Bakir F, Reggabi M, Benouiche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

### Bentley DW

MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS. Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

### Bercaw BL

WHEN LOSS OF CONSCIOUSNESS IS NOT CAUSED BY EPILEPSY. Bercaw BL *Geriatrics* 31: 95-7, Jul 76 (Eng) DL/76NOV65

AGED; ARTERIAL OCCLUSIVE DISEASES (complications); BASILAR ARTERY; DIAGNOSIS, DIFFERENTIAL; EPILEPSY

(complications, diagnosis); HEART DISEASES (diagnosis); HUMAN; HYPERVENTILATION (complications); HYPOGLYCEMIA (complications); HYPOTENSION; ORTHOSTATIC (complications, diagnosis); SYNCOPE (diagnosis, etiology); UNCONSCIOUSNESS (etiology).

### Berces G

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA] Berces G, Garas Z *Orv Hetil* 117: 1753-6, 18 Jul 76 (Hun) DL/76NOV199  
DIABETIC COMA (metabolism); OBESITY IN DIABETES (metabolism); OSMOLAR CONCENTRATION.

### Berg G

[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION] Matzkie F, Berg G, Bickel H, Sailer D *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

### Berg T

K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO. Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT (drug effects); CELL MEMBRANE PERMEABILITY (drug effects); CHLORIDES (metabolism); GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); LIVER (cytology, metabolism); MALE; POTASSIUM (metabolism); RATS; SODIUM (metabolism).

### Bergen WG

GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT. Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

### Berger EG

ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS. Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

ADMINISTRATION, ORAL; BICARBONATES (blood); BIGUANIDES (administration & dosage); COMPARATIVE STUDY; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INFUSIONS, PARENTERAL; INSULIN (blood); INTESTINAL ABSORPTION (drug effects); LACTATES (blood); PHOSPHATES (blood); PYRUVATES (blood).

### Berland H

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freyss E, Tissier J *Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114  
BIRTH WEIGHT; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FEMALE; GLUCAGON (blood); GLUCOSE; HUMAN; HYPERGLYCEMIA (chemically induced); INFANT, NEWBORN; INSULIN (blood); PREGNANCY; SOMATOTROPIN (blood).

### Bernardis LL

ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME. Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BODY WEIGHT; DIET; ESTROGENS (pharmacodynamics); FASTING; FEEDING BEHAVIOR (physiology); GLUCOCORTICOIDS (pharmacodynamics); GLUCOSE (metabolism); GROWTH

DISORDERS (etiology); HYPERLIPIDEMIA (etiology); HYPOTHALAMUS (physiology); HYPOTHALAMUS, MEDIAL (physiology); INSULIN (blood, secretion); LIPIDS (biosynthesis, blood); NEURAL INTERCONNECTIONS; OBESITY (etiology); PALMITIC ACIDS (metabolism); RATS; SOMATOTROPIN (blood, deficiency, secretion); SYNDROME; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VAGUS NERVE (physiology).

### Berne C

LONG-TERM EFFECTS OF A HIGH GLUCOSE CONCENTRATION ON CYCLIC NUCLEOTIDE PHOSPHODIESTERASE ACTIVITY IN MOUSE PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Berne C, Andersson A *Biochem J* 156: 461-3, 15 May 76 (Eng) DL/76NOV367

ANIMAL EXPERIMENTS (analysis); GLUCOSE (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, enzymology); MALE; MICE; PHOSPHODIESTERASES (metabolism); TIME FACTORS; TISSUE CULTURE; 3,5-CYCLOCAMP PHOSPHODIESTERASE (metabolism).

### Bersezio A

OSMOTIC RESISTANCE OF LEUKOCYTES IN PATIENTS WITH ONSET OF DIABETES BEFORE TWENTY-FIVE YEARS. Marigo S, Bersezio A *Acta Diabetol Lat* 12: 289-95, Sep-Dec 75 (Eng) DL/76NOV284

### Bertoli E

THE ROLE OF LIPID IN REGULATION OF MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE. Bertoli E, Finean JB, Griffiths DE *FEBS Lett* 61: 163-5, 15 Jan 76 (Eng) \*DL/76NOV485

ADENOSINE TRIPHOSPHATASE (metabolism); ELECTRON SPIN RESONANCE; KINETICS; LIPIDS (physiology); MEMBRANES (enzymology); MITOCHONDRIA (enzymology); OLIGOMYCIN (pharmacodynamics); PROTEIN CONFORMATION; SACCHAROMYCES CEREVIAE (enzymology); SPIN LABELS; STEARIC ACIDS; TEMPERATURE; X-RAY DIFFRACTION.

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

### Berwick L

MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS PRESERVED. Morrison AD, Berwick L, Orci L, Winograd AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

### Besser GM

CLINICAL IMPLICATIONS OF GROWTH HORMONE RELEASE INHIBITING HORMONE (GH-RIH). PP. 115-25. Besser GM *In 6 Labrie F, et al., ed. Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) DL/76NOV125

ACROMEGALY (blood, drug therapy); ANEMIA, PERNICIOUS (drug therapy); CORTICOTROPIN (blood); DIABETES MELLITUS (drug therapy); GASTRIN (secretion); HUMAN; MONOGRAPH (mortality); PANCREATIC NEOPLASMS (drug therapy); SOMATOTROPIN RELEASE INHIBITING HORMONE (toxicity, therapeutic use); SOMATOTROPIN (blood); STOMACH

## Diabetes Literature—Author Index

Blake CC

(secretion); THYROTROPIN (blood); TIME FACTORS.

**LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION.** Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

**Best L**

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBESE HYPERGLYCAEMIC MICE.** Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCOSE (pharmacodynamics); HYPERGLYCEMIA (metabolism); IN VITRO; ISLANDS OF LANGERHANS (metabolism); MICE.

**Betta PG**

**PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES.** Rinaudo MT, Ponzetto C, Curto M, Betta PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84

**Betts RF**

**MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS.** Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

**Betz AL**

**THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM.** Betz AL, Gilbue DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299  
ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; BLOOD SUGAR; BLOOD-BRAIN BARRIER (drug effects); BRAIN (blood supply, metabolism); CAPILLARIES (metabolism); CYTOCHALASIN B (pharmacodynamics); DOGS; ENDOTHELIUM (metabolism); ERYTHROCYTES (metabolism); GLUCOSE (metabolism); HUMAN; HYPOGLYCEMIA (metabolism); KINETICS; METHYLGLCOSIDES (pharmacodynamics); MODELS, BIOLOGICAL; MONOSACCHARIDES (pharmacodynamics); PHLORETIN (pharmacodynamics); PHLORHIZIN (pharmacodynamics); REVIEW; STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

**Bevan PG**

**PROCEEDINGS: EFFECT OF GLUCAGON ON PAIN IN ACUTE PANCREATITIS.** Waterworth TA, Bevan PG *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV325

**Bewley TA**

**HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE.** Kawauchi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

**Bickel H**

**[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION]** Matzakis F, Berg G, Bickel H, Sailer D *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

**Biennengraber V**

**[ANIMAL EXPERIMENTAL STUDIES ON PERIODONTAL CHANGES IN ALLOXAN DIABETES]** Biennengraber V, Tillmann K, Zahn Mund Kieferheilkd 64: 260-6, 1976 (Eng) DL/76NOV280  
ALLOXAN DIABETES (pathology); ANIMAL EXPERIMENTS (analysis); EPITHELIUM (pathology); MANDIBLE (pathology); PERIODONTIUM (pathology); RATS; SCHWANN CELLS (pathology).

**Bier DM**

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**Biesbroeck J**

**ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY.** Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

**Bigi A**

**LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES.** Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Bioch Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

**Biliotti G**

**[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT]** Biliotti G, Stefanini P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323  
ANGIOGRAPHY (methods); GLUCOSE SOLUTION, HYPERTONIC (diagnostic use); HEPATIC ARTERY; HUMAN; INJECTIONS, INTRA-ARTERIAL; ISLET CELL TUMOR (radiography); MESENTERIC ARTERIES; PANCREAT. C NEOPLASMS (radiography); RADIOGRAPHIC IMAGE ENHANCEMENT (methods); TOLBUTAMIDE (diagnostic use).

**Bindewald H**

**[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL OF THE RAT (AUTHORS TRANSL)]** Merkle P, Bindewald H, Breiting D *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546

**Bing RJ**

**[IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL.]** Sarmi JS, Fischer R, Ikeda S, Bing RJ *Proc Soc Exp Biol Med* 151: 303-6, Feb 76 (Eng) \*DL/76NOV568

**Birk SA**

**THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR.** Spellacy WN, Buhu WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV509

**Birkbeck JA**

**CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON.** Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV32  
ADOLESCENCE; ADULT; CANADA; CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (diet therapy); DIETARY CARBOHYDRATES; DIETARY FATS; DIETARY PROTEINS; ENERGY METABOLISM; GREAT BRITAIN; HUMAN; UNITED STATES.

**Birkenhager JC**

**DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME.** Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525  
ADULT; BODY WEIGHT; CUSHINGS SYNDROME (blood, complications); FASTING; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HUMAN; HYDROCORTISONE (blood); MALE; MIDDLE AGE; OBESITY (blood, complications).

**Bishop P**

**TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE.** Green H, Bishop P, Houston M, McKillop R, Norman R, Stothard P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

**Bittner R**

**EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLORPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION.** Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336  
ADMINISTRATION, ORAL; ADULT; BLOOD SUGAR (analysis); DUODENAL ULCER (surgery); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (administration & dosage); HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (blood); MALE; MIDDLE AGE; PORTAL VEIN; PYLORUS (surgery); VAGOTOMY.

**Björntorp P**

**THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS.** Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATIONS INFLUENCE OF ADIPOSE TISSUE METABOLISM.** pp. 30-43. Björntorp P *Inn Hautvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis*. Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [37] DL/76NOV121  
ADIPOSE TISSUE (cytology, metabolism); AGING; ANIMAL EXPERIMENTS (analysis); DIETARY CARBOHYDRATES; EXERTION; FATTY ACIDS (metabolism); GLUCOSE (metabolism); HUMAN; INSULIN (pharmacodynamics); LINOLEIC ACIDS (metabolism); LIPIDS (blood); MONOGRAPH (mortality); REVIEW; TRIGLYCERIDES (blood).

**Blackburn GL**

**EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK?** O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

**Blake CC**

**X-RAY STUDIES OF GLYCOLYTIC ENZYMES.** Blake CC *Essays Biochem* 11: 37-79, 1975 (Eng) [67] \*DL/76NOV479

## Diabetes Literature—Author Index

### Blakemore WS

BINDING SITES; FRUCTOSEDIPHOSPHATE ALDOLASE; GLUCOSEPHOSPHATE ISOMERASE; GLYCERALDEHYDEPHOSPHATE DEHYDROGENASE; GLYCOGEN PHOSPHORYLASE; GLYCOLYSIS; HEXOKINASE; LACTATE DEHYDROGENASE; MACROMOLECULAR SYSTEMS; NAD; PHOSPHOFRUCTOKINASE; PHOSPHOGLUCOMUTASE; PHOSPHOGLYCERATE KINASE; PHOSPHOGLYCEROMUTASE; PHOSPHOPYRUVATE HYDRATASE; PROTEIN BINDING; PROTEIN CONFORMATION; PYRUVATE KINASE; REVIEW; TRIOSEPHOSPHATE ISOMERASE; X-RAY DIFFRACTION.

### Blakemore WS

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskiw MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

### Blank WF Jr

CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA. Kirchner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) \*DL/76NOV633

### Blass JP

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

### Blatow V

POTENTIAL ANTILIPOLYTIC ACTIVITY OF SULCOTIDIOL. Roncucci R, Roba J, Lambelin G, Ferenczi M, Blatow V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

### Blome G

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blome G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59: 62-7, Mar 75 (Eng) DL/76NOV241

### Bloom AK

GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Bloom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CATTLE (blood);

DIURNAL RHYTHM; INSULIN (blood); MALE; SOMATOTROPIN (blood); TIME FACTORS.

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Bloom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

### Bloom S

RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM. Tsokos JO, Bloom S *Biochim Biophys Acta* 423: 42-51, 15 Jan 76 (Eng) \*DL/76NOV436

### Bloom SR

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

ADULT; ALANINE (blood); BLOOD SUGAR; CATECHOLAMINES (blood); ENERGY METABOLISM; EXERTION; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLYCERIN (blood); HORMONES (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); LACTATES (blood); MALE; PHYSICAL FITNESS; PYRUVATES (blood); SOMATOTROPIN (blood).

### Boarato E

EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE. Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

### Bock R

[CATAMNESTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS] Bock R, Wieczorek V, Dachsler R *Z Aerztl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

ACROMEGALY (etiology); ADENOMA (complications; diagnosis); ADOLESCENCE; ADRENAL GLAND HYPOFUNCTION (etiology); ADULT; AGED; DIABETES MELLITUS (etiology); DISABILITY EVALUATION; FEMALE; HUMAN; HYPOTHYROIDISM (etiology); MALE; MIDDLE AGE; PITUITARY NEOPLASMS (complications; diagnosis); PROGNOSIS; VISION DISORDERS (etiology); WORK CAPACITY EVALUATION.

### Bogatyrev OP

[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME] Bogatyrev OP, Tishenina RS, Zenovko EI *Sov Med 115-8*, Sept 75 (Rus) DL/76NOV249

ADULT; BLOOD SUGAR (analysis); CUSHINGS SYNDROME (blood, metabolism); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INSULIN (blood); LIPIDS (metabolism); MALE; MIDDLE AGE.

### Bogie W

LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES. Bogie W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

COMPARATIVE STUDY; DIABETES MELLITUS (blood, drug therapy); FEMALE; FIBRINOLYSIS; GLIBENCLAMIDE (therapeutic use); HUMAN; MALE; PHENFORMIN (therapeutic use).

### Bogoliubov VM

[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS] Bogoliubov VM, Ershova LM, Kaplan MA, Syzgantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

ADULT; AGED; ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (complications; drug therapy, metabolism); DOGS; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; POTASSIUM DEFICIENCY (etiology); POTASSIUM (metabolism).

### Bogumil RJ

PULSATILE VARIATIONS IN HORMONE LEVELS. PP. 107-31. Bogumil RJ *In 0 Ferin M et al., ed. Biorhythms and human reproduction. New York, Wiley, 1974. QT 167 8616* 1972. (Eng) [65] \*DL/76NOV408

CIRCADIAN RHYTHM; CORTICOTROPIN (blood); FEMALE; FSH (blood); HUMAN; LH (blood); MENSTRUATION; MODELS, BIOLOGICAL; MONOGRAPH; PITUITARY HORMONES (physiology); REVIEW; 17-HYDROXYCORTICOSTEROIDS (blood).

### Bohanon N

SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Deftois LJ, Lorenzi M, Bohanon N, Tsakalakian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

### Boime I

[ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

### Boland MJ

[PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES. Boland MJ, Gutfreund H *Biochem J* 151: 715-27, Dec 75 (Eng) \*DL/76NOV637

BINDING SITES; HYDROGEN; KINETICS; LACTATE DEHYDROGENASE (metabolism, antagonists & inhibitors); MODELS, BIOLOGICAL; MYOCARDIUM (enzymology); NAD; PHILIPPINES; PROTEIN BINDING; PYRUVATES (metabolism); SPECTROMETRY, FLUORESCENCE; TIME FACTORS.

### Bombara R

[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

### Bompiani A

[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS] Primicerio M, Plotti G, Montemurro A, Moneta E, Bompiani A *Ann Ostell Ginecol Med Perinat* 97: 71-95, Mar-Apr 76 (Ita) DL/76NOV324

### Bonetti A

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

### Boneva M

CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE. Conev K, Raikova M, Boneva M *Folia Med (Plovdiv)* 17: 3-8, 1975 (Eng) \*DL/76NOV494

### Borg K

PHYSIOPATHOLOGICAL EFFECTS OF RAPESEED OIL: A REVIEW. Borg K *Acta Med Scand [Suppl]* 5-13, 1975 (Eng) [88] \*DL/76NOV610

ANIMAL EXPERIMENTS; CARDIOLIPINS (metabolism); DIETARY FATS; ERUCIC ACIDS (toxicity); FATTY ACIDS, UNSATURATED (toxicity); FEMALE; FLAVOPROTEINS (metabolism); GROWTH (drug effects); HEART VENTRICLE (drug effects); HEART (drug effects); INTESTINAL ABSORPTION (drug effects); KIDNEY CONCENTRATING ABILITY (drug effects); LIPOIDOSIS (chemically induced); MALE; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDITIS (chemically induced, pathology); MYOCARDIUM (metabolism, pathology); OILS (toxicity); RATS; REVIEW.

### Borzi V

NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESIVE AND

## Diabetes Literature—Author Index

Brignoli CA

NONOBSESE DIABETICS. Belfiore F, LoVecchio L, Borzi V. *Metabolism* 25: 723-5, JUL 76 (Eng) \*DL/76NOV173

Bouissou H

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT. *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) \*DL/76NOV201

Bousquet B

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreux C, Stachow A. *Ann Dermatol Syphiligr (Paris)* 102: 526-8, 1975 (Fre) \*DL/76NOV328

COMPARATIVE STUDY; DERMATOMYOSITIS (metabolism); DIABETES MELLITUS (metabolism); HUMAN; INDOLEACETIC ACIDS (analysis); RAYNAUDS DISEASE (metabolism); SCLERODERMA, CIRCUMSCRIBED (metabolism); SKIN DISEASES (metabolism); TRYPTAMINES (analysis).

Bowen RM

ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET. Schonfeld G, Weidman SW, Witztum JL, Bowen RM. *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

Brachet E

[OXIDATIVE METABOLISM OF FUNICULAR TISSUE. I. EFFECT OF EXOGENOUS SUBSTRATES ON OXYGEN CONSUMPTION OF FUNICULAR TISSUE IN VITRO] Brachet E C R Soc Biol (Paris) 169: 1077-80, 1975 (Fre) \*DL/76NOV450

ACETYL COENZYME A (metabolism); ENGLISH ABSTRACT; GLUCOSE (metabolism); HUMAN; KREBS CYCLE; OXYGEN CONSUMPTION; PYRUVATES (metabolism); SUCCINATES (metabolism); TISSUE CULTURE; UMBILICAL CORD (metabolism).

Bradshaw RW

EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFFUSION IN LIPID BILAYER MEMBRANES. Bradshaw RW, Robertson CR J Membr Biol 25: 93-114, 4 Dec 75 (Eng) \*DL/76NOV540

DIFFUSION; ELECTRIC CONDUCTIVITY; LIPIDS; MATHEMATICS; MEMBRANE POTENTIALS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; THERMODYNAMICS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Braimbridge MV

CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV, Chir B. *Circulation* 54: 193-202, Aug 76 (Eng) \*DL/76NOV31

Bramblett CA

EXPERIMENTAL ATHEROSCLEROSIS IN THE BABOON. McGill HC Jr, Mott GE, Bramblett CA. *Primates Med* 9: 41-65, 1976 (Eng) \*DL/76NOV675

Brand MD

STOICHIOMETRY OF H& EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA2+ BY RAT LIVER MITOCHONDRIA. Brand MD, Chen CH, Lehninger AL J Biol Chem 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

ANIMAL EXPERIMENTS; ANTIMYCIN A (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); CARBOXYLIC ACIDS (metabolism, pharmacodynamics); ELECTRON TRANSPORT; HYDROGEN (metabolism); HYDROXYBUTYRATES (metabolism); IN VITRO; KINETICS; MALE; MITOCHONDRIA, LIVER (metabolism, drug effects); OXYGEN CONSUMPTION (drug effects); PHILIPPINES; RATS; ROTENONE (pharmacodynamics); SUCCINATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Bransome ED Jr

GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL. *Anal Chem* 48: 1386-94, Aug 76 (Eng) \*DL/76NOV316

BRASELTON WE Jr

GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL. *Anal Chem* 48: 1386-94, Aug 76 (Eng) \*DL/76NOV316

CHROMATOGRAPHY, GAS; FLUOROACETATES (analysis); HYPOGLYCEMIC AGENTS (analysis); MASS FRAGMENTOGRAPHY; SPECTRUM ANALYSIS; MASS; SULFONYLUREA COMPOUNDS (analysis).

Brawer JR

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Alper LC, Brawer JR, Patel YC, Reichlin S. *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

Bray GA

THE OVERWEIGHT PATIENT. Bray GA. *Adv Intern Med* 21: 267-308, 1976 (Eng) \*DL/76NOV618

ADIPOSE TISSUE (metabolism); ADOLESCENCE; ADULT; ANTHROPOMETRY; APPETITE DEPRESSANTS (therapeutic use); BODY CONSTITUTION; BODY WEIGHT; CADAVER; CHILD; CHILD, PRESCHOOL; EXERCISE THERAPY; FEMALE; HEALTH EDUCATION; HUMAN; INFANT; INFANT, NEWBORN; MALE; MIDDLE AGE; NUTRITION; OBESITY (physiopathology, etiology, therapy); REVIEW; SKINFOLD THICKNESS; SOCIOECONOMIC FACTORS.

Brazeau P Jr

PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P Jr. *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

Breidahl HD

HOW LONG ARE ORAL ANTIDIABETIC DRUGS EFFECTIVE? Breidahl HD. *Aust Fam Physician* 5: 445-51, May 76 (Eng) \*DL/76NOV345

ADMINISTRATION, ORAL; BIGUANIDES (administration & dosage); BLOOD SUGAR; DIABETES MELLITUS (drug therapy); DIABETIC DIET; GLYCOSURIA (diagnosis); HUMAN; SULFONYLUREA COMPOUNDS (administration & dosage); TIME FACTORS.

Breitig D

[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL OF THE RAT (AUTHORS TRANSL)] Merkle P, Bindewald H, Breitig D. *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546

Brendel K

ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX. Brendel K, Meezan E, Carlson EC. *Science* 185: 933-5, 13 Sept 74 (Eng) \*DL/76NOV584

ANIMAL EXPERIMENTS; CARBOHYDRATES (metabolism); CARBON DIOXIDE (metabolism); CATTLE; CEREBRAL CORTEX (blood supply); ENERGY METABOLISM; GLYCOLYSIS; MICROCIRCULATION (metabolism); OXYGEN CONSUMPTION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Bressler R

EDITORIAL: THE UNRIPE AKEE - FORBIDDEN FRUIT. Bressler R. *N Engl J Med* 295: 500-1, 26 Aug 76 (Eng) \*DL/76NOV183

ANIMAL EXPERIMENTS (analysis); FOOD POISONING (etiology, metabolism, occurrence); FRUIT (poisoning); GLUCONEOGENESIS; HUMAN; HYPOGLYCEMIA (etiology, metabolism); JAMAICA; RATS; TOXINS; VOMITING (etiology).

Bricaud H

[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT] Aumailley M, Razaka G, Larue J, Bricaud H C R Soc Biol (Paris) 169: 553-8, 1975 (Fre) \*DL/76NOV449

Bricout J

[USE OF ETHANOL NATURALLY ENRICHED IN CARBON 13 FOR METABOLIC STUDIES] Bricout J, Le Bourhis B, Koziet J. *C R Soc Biol (Paris)* 169: 904-11, 1975 (Fre) \*DL/76NOV452

ALCOHOL, ETHYL (metabolism, blood); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CARBON DIOXIDE (metabolism); CARBON ISOTOPES; CORN (metabolism); ENGLISH ABSTRACT; MALE; RATS.

Brierley GP

THE UPTAKE AND EXTRUSION OF MONOVALENT CATIONS BY ISOLATED HEART MITOCHONDRIA. Brierley GP. *Mol Cell Biochem* 10: 41-63, 31 Jan 76 (Eng) \*DL/76NOV554

AMMONIUM COMPOUNDS (metabolism); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); ENERGY TRANSFER; LEAD (metabolism); MAGNESIUM (metabolism); MEMBRANES (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MITOCHONDRIAL CONTRACTION; MITOCHONDRIAL SWELLING; MODELS, BIOLOGICAL; MYOCARDIUM; OXIDATIVE PHOSPHORYLATION; PHILIPPINES; POTASSIUM (metabolism); SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; ZINC (metabolism).

Brignoli CA

COMPREHENSIVE EVALUATION OF FATTY ACIDS IN FOODS. V. UNHYDROGENATED FATS AND OILS. Brignoli CA, Kinsella JE, Weihrauch JL. *J Am Diet Assoc* 68: 224-9, Mar 76 (Eng) \*DL/76NOV530

## Diabetes Literature—Author Index

### Briner WW

CLIMATE; COTTONSEED (analysis); DIETARY FATS (analysis); FATS, UNSATURATED (analysis); FATTY ACIDS (analysis); FATTY ACIDS, UNSATURATED (analysis); HELIANTHUS; LECITHINS (analysis); LIPIDS (analysis); MEAT (analysis); OILS (analysis); SAFFLOWER OIL (analysis); SEEDS (analysis); SESAME OIL (analysis); SOY BEANS; SPECIES SPECIFICITY; TEA; WHEAT.

### Briner WW

TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS. Schiott CR, Loe H, Briner WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) DL/76NOV140

### Brodan V

[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)] Andel M, Brodan V, Kuhn E *Cas Lek Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

### Brodows RG

LACK OF CENTRAL AUTONOMIC REGULATION OF SUBSTRATE DURING EARLY FASTING IN MAN. Brodows RG, Campbell RG, Al-Aziz AJ *Metabolism* 25: 803-7, JUL 76 (Eng) DL/76NOV176  
ADULT; BLOOD SUGAR (analysis); CATECHOLAMINES (urine); CLINICAL RESEARCH; COMPARATIVE STUDY; FASTING; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROXYBUTYRATES (blood); INSULIN (blood); LIPID MOBILIZATION; LIPIDS (metabolism); MALE; METABOLISM; QUADRIPLEGIA (metabolism); SYMPATHETIC NERVOUS SYSTEM (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Brodskaia NI

[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY] Brodskaia NI, Zotov IuV, Shchedrenok VV, Vinogradova TV, Shcherbakova IA *Zh Nevropat Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603  
ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); BRAIN (metabolism); COMPARATIVE STUDY; ENGLISH ABSTRACT; EPILEPSY (metabolism, etiology); EPILEPSY, TRAUMATIC (metabolism); FEMALE; GLUCOSE (cerebrospinal fluid); GLYCOPEPTIDES (metabolism); HUMAN; INFLAMMATION (complications); MALE; MIDDLE AGE; OXIDATION-REDUCTION.

### Brodsky I

RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE. Kahn SB, Cheung T, Lodi R, Brodsky I *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

### Brown GM

STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION. Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

### Brown WJ

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY. Cederbaum SD, Blaas JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

### Bruni A

EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE. Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302  
AMINO ACIDS (physiology); AMOBARBITAL (pharmacodynamics); AMPHETAMINE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BLOOD-BRAIN BARRIER; BRAIN (drug effects, metabolism); CEREBROSIDES (physiology); CHOLESTEROL (physiology); EPINEPHRINE (pharmacodynamics); FASTING; FATTY ACIDS (physiology); GLUCOSE (metabolism); HYDROXYBUTYRATES; INSULIN (pharmacodynamics); LIDOCAINE (pharmacodynamics); LIPIDS (pharmacodynamics, physiology); MICE; MODELS, BIOLOGICAL; PHOSPHOLIPIDS (physiology).

### Brunius E

MORPHOLOGICAL EFFECTS OF RAPESEED OIL IN RATS. I. SHORT-TERM STUDIES. Engfeldt B, Brunius E *Acta Med Scand [Suppl]* 15-26, 1975 (Eng) \*DL/76NOV609

### Brynger H

[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION] Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164  
TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blomma G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59: 62, 6-7 Mar 75 (Eng) DL/76NOV241  
AMYLASE (blood); BLOOD SUGAR (metabolism); CASE REPORT; DIABETES MELLITUS (surgery); GLUCOSE TOLERANCE TEST; GRAFT REJECTION; HUMAN; INSULIN (blood); LIGATION; MALE; MIDDLE AGE; PANCREAS (transplantation); PANCREATIC DUCTS (surgery); TRANSPLANTATION, ALLOGENEIC.

### Brzozowski Z

[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojcikowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) DL/76NOV298  
AMIDES (chemical synthesis); ANIMAL EXPERIMENTS (analysis); CHEMISTRY; ENGLISH ABSTRACT; HYPOGLYCEMIC AGENTS (chemical synthesis); PYRAZOLES (chemical synthesis); RATS; SULFONYLUREA COMPOUNDS (chemical synthesis).

### Buell DN

INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS. Esber EC, Buell DN, Leikin SL *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

### Bueno F

[THERAPY OF ALCOHOLISM] Bueno F, Mezey E *Internist (Berlin)* 17: 362-9, Jul 76 (Ger) DL/76NOV82  
ACUTE DISEASE; ALCOHOLIC INTOXICATION; ALCOHOLISM (complications, drug therapy, metabolism, therapy); AVITAMINOSIS (complications); CHRONIC DISEASE; CONVULSIONS (complications); DELIRIUM TREMENS (complications); DISULFIRAM (therapeutic use); DRUG WITHDRAWAL SYMPTOMS; DRUGS (metabolism); HALLUCINATIONS (complications); HUMAN; HYPERLIPEMIA (complications); HYPOGLYCEMIA (complications); PSYCHOTHERAPY; THROMBOOPENIA (complications); URIC ACID (metabolism).

Bueno L

INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP. Weeks TE, Bueno L, Garcia-Villar R *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

### Buhi WC

THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spellacy WN, Buhi WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

### Bullock BC

ATHEROSCLEROSIS IN OLD WORLD MONKEYS. Clarkson TB, Hamm TE, Bullock BC, Lehner ND *Primates Med* 9: 68-89, 1976 (Eng) \*DL/76NOV676

### Bundgaard K

[LETTER: GLUCOSE ANALYSIS IN BLOOD AND SERUM WITH THE BM-TESTMETER] Nue I, Wulff AM, Bundgaard K *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

### Burger H

GROWTH HORMONE: ASPECTS OF THE REGULATION OF HUMAN GROWTH HORMONE SECRETION. PP. 489-97. Burger H *In* Franchimont P, ed. *Some aspects of hypothalamic regulation of endocrine functions*. Stuttgart, Schattauer, 1975. WL 312 S989s 1975. (Eng) [661] \*DL/76NOV396

ACROMEGALY (physiopathology); BIOGENIC AMINES (physiology); HORMONES, ECTOPIC (secretion); HUMAN; METABOLISM; MONOGRAPH; NEOPLASMS (secretion); PITUITARY HORMONE RELEASE INHIBITING HORMONES (physiology); PITUITARY HORMONE RELEASING HORMONES (physiology); REVIEW; SLEEP (physiology); SOMATOTROPIN RELEASING HORMONE (physiology); SOMATOTROPIN (secretion, physiology).

### Burgess JA

METHODS OF DIAGNOSING DIABETES MELLITUS. Burgess JA *Aust Fam Physician* 5: 49-52, Jan-Feb 76 (Eng) DL/76NOV342

BLOOD SUGAR (analysis); DIABETES MELLITUS (diagnosis); GLUCOSE TOLERANCE TEST (methods); GLYCOSURIA (diagnosis); HUMAN; METHODS.

### Burghen G

INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103  
ANIMAL EXPERIMENTS (analysis); BLOOD PROTEINS (pharmacodynamics); HUMAN; INSULIN (metabolism); KINETICS; LIVER (enzymology, metabolism); PEPTIDE HYDROLASES (isolation & purification, metabolism); RATS; SWINE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Burke G

ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM. Yu S, Friedman Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

### Burns RR

ESTIMATION AND INTERPRETATION ON PLASMA ZINC FRACTION. Burns RR, Fell GS *Scott Med J* 21: 153-4, Jul 76 (Eng) DL/76NOV244

## Diabetes Literature—Author Index

Cederbaum SD

DIABETES MELLITUS (metabolism); HUMAN; IMMUNOELECTROPHORESIS; WOUNDS AND INJURIES (urine); ZINC (blood, metabolism, urine).

Butturini U

[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS] Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

Byers SO

CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM. Friedman M, Byers SO *Metabolism* 25: 125-6, Jan 76 (Eng) DL/76NOV67

Carabouar A

THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES. Cedola N, Carabouar A, Auciello N, Doria I, Ponce de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV28

Caccavo FA

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng) DL/76NOV460

Calabrese P

[TORTADES DE POINTES (CASE REPORTS)] Calabrese P, Franchini G, Di Biase M, Latorre A, Lentini ML, Antonelli G *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

ADULT; AGED; AORTIC VALVE STENOSIS (complications); ARRHYTHMIA (etiology); CASE REPORT; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HEART BLOCK (etiology); HEART ENLARGEMENT (complications); HUMAN; HYPERTENSION (complications); MIDDLE AGE; MYOCARDITIS (complications).

Caldarone CV

CONSIDERATIONS IN EXAMINATION: AN OVERVIEW FOR THE DENTAL PROFESSION. Caldarone CV *RI Dent J* 8: 16-8 (CONTD., Sep 75 (Eng) DL/76NOV238

AMYLOIDOSIS; ASCORBIC ACID DEFICIENCY; DIABETES MELLITUS; DIAGNOSIS, ORAL; EOSINOPHILIC GRANULOMA; GAUCHERS DISEASE; HAND-SCHUELLER-CHRISTIAN SYNDROME; LETTERER-SIWE DISEASE; MOUTH DISEASES (therapy); VITAMIN A DEFICIENCY; VITAMIN B DEFICIENCY; VITAMIN D DEFICIENCY.

Campbell IW

MULTIPLE COMPLICATIONS IN SEVERE DIABETIC KETOACIDOSIS. A SHORT REVIEW OF THE LITERATURE. Clarke BF, Campbell IW *Acta Diabetol Lat* 12: 327-37, Sep-Dec 75 (Eng) DL/76NOV28

Campbell RG

LACK OF CENTRAL AUTONOMIC REGULATION OF SUBSTRATE DURING EARLY FASTING IN MAN. Brodows RG, Campbell RG, Al-Aziz AJ *Metabolism* 25: 803-7, JUL 76 (Eng) DL/76NOV176

Capani F

CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Sensi S, Capani F J *Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

Capri C

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

Carlson EC

ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX. Brendel K, Meezan E, Carlson EC *Science* 185: 953-5, 13 Sept 74 (Eng) \*DL/76NOV584

Carney JD

SPONTANEOUS DIABETES MELLITUS IN A TURTLE. Frye FL, Dutra FR, Carney JD, Johnson B *Vet Med Small Anim Clin* 71: 935-9, Jul 76 (Eng) DL/76NOV267

Caronna S

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavarotta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

Carpentier JL

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY. Carpentier JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

ADIPOSE TISSUE (drug effects, ultrastructure); ANIMAL EXPERIMENTS (analysis); CELL MEMBRANE (drug effects, ultrastructure); EPINEPHRINE (pharmacodynamics); FREEZE-FRACTURING; GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); MALE; RATS.

Carroll R

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

Carruthers ME

SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA. Pp 248-59. Carruthers ME, Taggart P, Salpeter PD, Gatt JA *Int Schweizer W, ed. Beta-blockers - present status and future prospects. Bern, Huber, 1974.* QV 132 B562 1974. (Eng) \*DL/76NOV640

BLOOD PRESSURE (drug effects); BLOOD SUGAR (metabolism); BODY TEMPERATURE REGULATION (drug effects); CATECHOLAMINES (blood); CLINICAL RESEARCH; COLD; COMPARATIVE STUDY; FATTY ACIDS, NONESTERIFIED (blood); HEART RATE (drug effects); HUMAN; MALE; MONOGRAPH; OXPRENOLOL (pharmacodynamics); PRACTOLOL (pharmacodynamics); SHOCK, TRAUMATIC (pathophysiology); STRESS (physiopathology).

Casanova P

[INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APROPOS OF 2 CASES)] Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

ADOLESCENCE; CASE REPORT; CHILD; CHILD, PRESCHOOL; ENGLISH ABSTRACT; HUMAN; INFANT; INFANT, NEWBORN; ISLANDS OF LANGERHANS (pathology, ultrastructure); ISLET CELL TUMOR (etiology, pathology); MALE; PANCREATIC NEOPLASMS (etiology, pathology).

Castel Aznar C

[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESIVE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION] Castel Aznar C, Tamarit Torres J, Hervan Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

ENGLISH ABSTRACT; FEMALE; HUMAN; INJECTIONS, INTRAVENOUS; MALE; OBESITY (blood); SEROTONIN (blood, secretion); TOLBUTAMIDE (administration & dosage, blood, diagnostic use).

Castro A

SOMOGYI EFFECT IN PATIENT WITH HYPOPIITUITARISM. Vesely DL, Castro A, Levey GS *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

Cavagnini F

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

ADDISONS DISEASE (physiopathology); ADULT; CORTICOTROPIN (secretion); CUSHINGS SYNDROME (physiopathology); ERGOLINES (diagnostic use); FEMALE; HUMAN; HYDROCORTISONE (secretion); HYPOGLYCEMIA (chemically induced, physiopathology); HYPOTHALAMO-HYPOPHYSEAL SYSTEM (drug effects, physiopathology); INSULIN; LYSINE; VASOPRESSIN (diagnostic use); MALE; METHERGOLINE (diagnostic use); MIDDLE AGE; SEROTONIN (antagonists & inhibitors, physiology); VASOPRESSIN (analog & derivatives).

Cavarotta A

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavarotta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

Cavazzini MG

[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS] Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); DOGS; HEPATECTOMY; INSULIN (secretion); ISLANDS OF LANGERHANS (physiology); LIVER (physiology).

Cazzolato G

[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE] Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

Cedard L

[THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN-DEPENDENT DIABETIC PREGNANCIES] Tchobroutsky C, Cedard L, Rouvillois JL, Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

Cederbaum SD

SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE

## Diabetes Literature—Author Index

### Cederblad G

**DEHYDROGENASE DEFICIENCY.** Cederbaum SD, Blas JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) \*DL/76NOV203

**ACIDOSIS (enzymology, familial & genetic, pathology); AMINO ACIDS (blood); CASE REPORT; CENTRAL NERVOUS SYSTEM (pathology); CHILD; CHILD, PRESCHOOL; DIETARY CARBOHYDRATES (adverse effects); DWARFISM (familial & genetic); FEMALE; FIBROBLASTS (enzymology); GLUCOSE TOLERANCE TEST; HUMAN; LACTATES (blood, urine); MALE; MENTAL RETARDATION (familial & genetic); MYELIN SHEATH (pathology); PYRUVATE DEHYDROGENASE COMPLEX (deficiency); PYRUVATES (blood).**

### Cederblad G

**PLASMA CARNITINE AND BODY COMPOSITION.** Cederblad G *Clin Chim Acta* 67: 207-12, Jan 76 (Eng) \*DL/76NOV461

**ADULT; AGE FACTORS; AGED; BODY COMPOSITION; BODY CONSTITUTION; BODY WATER (analysis); CARNITINE (blood, urine); CHOLESTEROL (blood); CREATININE (urine); DIET; FEMALE; HUMAN; LIPIDS (analysis); MALE; MIDDLE AGE; OBESITY (metabolism); SEX FACTORS; TRIGLYCERIDES (blood).**

### Cedola N

**THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES.** Cedola N, Cabrer A, Auciello N, Doria I, Ponc de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

**ADOLESCENCE; ADULT; AGED; BIOPSY; DIABETES MELLITUS (enzymology, pathology); ENZYME INDUCTION; FEMALE; GLUCOSEOPHOSPHATE DEHYDROGENASE (biosynthesis); HUMAN; LIVER (enzymology, pathology); MALATE DEHYDROGENASE (biosynthesis); MALE; MIDDLE AGE; PYRUVATE KINASE (biosynthesis).**

### Cerasi E

**EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS.** Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

### Chagovets NR

**THE RELATIONSHIP BETWEEN PRE-EXERCITIONAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY.** Krasnova AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol Zh SSSR* 61: 530-6, Apr 75 (Rus) \*DL/76NOV489

### Chain ER

**EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS.** Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

### Chambers JW

**STIMULATION OF RHESUS MONKEY GH RELEASE: ARGinine VS PLASMA VOLUME EXPANSION.** Chambers JW, Brown GM *J Clin Endocrinol Metab* 42: 169-72, Jan 76 (Eng) \*DL/76NOV524

**ARGININE (diagnostic use); HUMAN; HYDROCORTISONE (blood); MALE; MONKEYS; PHENCYCLIDINE (pharmacodynamics); PLASMA VOLUME; RHESUS MONKEYS; SOMATOTROPIN (blood).**

### Chan G

**LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE.** Andrew G, Chan G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

**LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO.** Andrew G, Chan G, Schiff D *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

### Chen SJ

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

### Chance GW

**GLUCOSE ASSIMILATION IN NEONATES. PP. 165-81.** Salle B, Chance GW, Ruoton-Ugliengo M, Stalberg E, Steiner DF, Kempler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlk H *In: Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis, Green, 1975. WS* 27.1 5989n 1972. (Eng) DL/76NOV131

### Chapman D

**SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM.** Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

### Chapman TE

**GLUCOSE UTILIZATION AND RECYCLING IN PONIES.** Anwer MS, Chapman TE, Gronwall R *Am J Physiol* 230: 138-42, Jan 76 (Eng) \*DL/76NOV623

### Chard T

**CLINICAL ASPECTS OF PLACENTAL LACTOGEN DETERMINATIONS. PP. 131-40.** Chard T *In: Hunter OB Jr, ed. Radioassay of clinical concepts.* Skokie, Ill., Seale, 1974. QY 250 59892r 1974. (Eng) DL/76NOV123

**BIOLOGICAL ASSAY; BIRTH WEIGHT; COMPARATIVE STUDY; EVALUATION STUDIES; FEMALE; FETAL DISTRESS (diagnosis); FETUS; HUMAN; MONOGRAPH (mortality); PLACENTAL LACTOGEN (blood, diagnostic use); PREGNANCY IN DIABETES (blood); PREGNANCY COMPLICATIONS (diagnosis); PREGNANCY TRIMESTER, THIRD; PREGNANCY; RADIOIMMUNOASSAY (methods).**

### Cheah JS

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMaturity.** Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

### Chen CH

**STOICHIOMETRY OF H & EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA<sup>2+</sup> BY RAT LIVER MITOCHONDRIA.** Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) \*DL/76NOV518

### Chepurnov SA

**CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMM-**

**BILIZATION]** Platonova RD, Baskakova GM, Chepurnov SA *Biol Nauki* 37-40, 1975 (Rus) \*DL/76NOV443

### Cheraskin E

**LETTER: PAINFUL TEETH AND DYSGLYCEMIA.** Ringsdorf WM Jr, Cheraskin E *JAMA* 231: 23-4, 6 Jan 75 (Eng) \*DL/76NOV541

### Chernykh VP

**[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID]** Chernykh VP, Dzhantemirova TS, Bannyi IP, Petuinin PA, Timashova *In Farm Zh* 31: 41-5, May-Jun 76 (Ukr) DL/76NOV57

**HYDRAZINES (chemical synthesis, pharmacodynamics); HYPOGLYCEMIC AGENTS (chemical synthesis, pharmacodynamics); OXAMIC ACID (analogs & derivatives); SULFANILIC ACID (chemical synthesis); SULFONAMIDES (chemical synthesis, pharmacodynamics).**

### Cheta D

**[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA]** Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

### Cheung T

**RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE.** Kahn SB, Cheung T, Lodise R, Brodsky I *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

### Chez RA

**FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY.** Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

### Chihara K

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGININE AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

### Childs CN

**GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETOORY SYSTEM.** Tager HS, Markes J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

### Chir B

**CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST.** Hearse DJ, Stewart DA, Braimbridge MW, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV131

### Chisholm D

**PRINCIPLES OF DIET FOR DIABETICS.** Chisholm D *Aust Fam Physician* 5: 349-50, Apr 76 (Eng) DL/76NOV344

**ALCOHOL, ETHYL (adverse effects); BODY WEIGHT; CARBOHYDRATES; DIABETIC DIET; HEALTH EDUCATION; HUMAN; HYPERLIPIDEMIA (therapy); NUTRITION.**

### Chopra JS

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE**

## Diabetes Literature—Author Index

Clowes GH Jr

**COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV28

**Choy R**  
**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

**Christensen S**  
**LOWER EXTREMITY AMPUTATIONS IN THE COUNTY OF AALBORG 1961-1971. POPULATION STUDY AND FOLLOW-UP.** Christensen S *Acta Orthop Scand* 47: 329-34, Jun 76 (Eng) DL/76NOV29

AGED; AMPUTATION (mortality); AMPUTATION, TRAUMATIC (surgery); ARTERIOSCLEROSIS (surgery); ARTIFICIAL LIMBS; DENMARK; DIABETIC ANGIOPATHIES (surgery); FOLLOW-UP STUDIES; HUMAN; LEG (surgery); MIDDLE AGE; NEOPLASMS (surgery); STATISTICS; VASCULAR DISEASES (surgery).

**Christoffersen EM**  
**CLINICAL COMPARISON BETWEEN GLIBURNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL.** Lindberg IF, Christoffersen EM, Kuusisto A, Lohdah K, Sagli R, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV26

**Christoffersen T**  
**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kh)* 38: 195-208, Mar 76 (Eng) DL/76NOV29

**Christophe JP**  
**INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE.** Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); BINDING SITES; GASTROINTESTINAL HORMONES (metabolism); GLUCAGON; GUINEA PIGS; IODOPROTEINS (metabolism); KINETICS; MALE; PANCREAS (cytology, metabolism); PROTEIN BINDING; SECRETIN; SWINE; TEMPERATURE.

**Chu DS**  
**LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE.** Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

**Chudapongse P**  
**FURTHER STUDIES ON THE EFFECT OF PHOSPHOENOLPYRUVATE ON RESPIRATION-DEPENDENT CALCIUM TRANSPORT BY RAT HEART MITOCHONDRIA.** Chudapongse P *Biochim Biophys Acta* 423: 196-202, 16 Feb 76 (Eng) \*DL/76NOV437

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); MITOCHONDRIA, MUSCLE (metabolism, drug effects); MYOCARDIUM; OXYGEN CONSUMPTION (drug effects);

**PHOSPHOENOLPYRUVATE (pharmacodynamics); RATS; ROTENONE (pharmacodynamics).**

**Chutorian AM**  
**THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN.** Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

BLOOD SUGAR (metabolism); CASE REPORT; CHILD; CHILD, PRESCHOOL; CONVULSIONS (etiology, prevention & control); EATING; GLUCOSE TOLERANCE TEST; HUMAN; HYPOGLYCEMIA (complications; diet therapy, prevention & control); INFANT; INSULIN (blood); MALE; TIME FACTORS.

**Chyn R**  
**ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY.** Permut MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; ENVIRONMENT; LIPIDS (metabolism); LIVER GLYCOGEN (metabolism); LIZARDS (metabolism); MESENTERY (metabolism); SEASONS; SENEGAL.

**Claes G**  
**TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT.** Brynger H, Blomhe G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

**Clark CM Jr**  
**EVIDENCE THAT CYCLIC AMP IS NOT INVOLVED IN THE CHRONOTROPIC ACTION OF GLUCAGON IN THE ADULT MOUSE HEART.** Clark CM Jr *Endocrinology* 99: 23-9, Jul 76 (Eng) DL/76NOV52

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analysis); ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); COMPARATIVE STUDY; ENZYME ACTIVATION; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (metabolism); HEART RATE (drug effects); HEART (drug effects); IN VITRO; MICE; MYOCARDIUM (analysis); RESERpine (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

**Clark MG**  
**GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE.** Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

ADENINE NUCLEOTIDES (analysis); AGE FACTORS; ANIMAL EXPERIMENTS (analysis); BUTYRATES (pharmacodynamics); FATTY ACIDS (pharmacodynamics); FRUCTOSE-1,6-DIPHOSPHATE ALDOLASE (analysis); GALACTOSE (metabolism); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLUCOSE (analysis); IN VITRO; INSULIN (pharmacodynamics); LACTATE

**DEHYDROGENASE (analysis); LACTATES (metabolism); LIVER (analysis, drug effects, enzymology, growth & development, metabolism); OXYGEN CONSUMPTION; PROPIONATES (metabolism); SHEEP.**

**Clarke BF**  
**MULTIPLE COMPLICATIONS IN SEVERE DIABETIC KETOACIDOSIS. A SHORT REVIEW OF THE LITERATURE.** Clarke BF, Campbell IW *Acta Diabetol Lat* 12: 327-37, Sep-Dec 75 (Eng) DL/76NOV288

ACIDOSIS, DIABETIC (complications); ADOLESCENCE, CASE REPORT; FEMALE; HEMORRHAGE, GASTROINTESTINAL (etiology); HUMAN; KETOSIS, DIABETIC (complications); MAGNESIUM DEFICIENCY (etiology); MEDIASTINAL EMPHYSEMA (etiology); NERVOUS SYSTEM DISEASES (etiology); SEPTICEMIA (etiology).

**Clarke P**  
**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kisselbach AH, Clarke P, Vydelingum N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

**Clarke S**  
**A MAJOR POLYPEPTIDE COMPONENT OF RAT LIVER MITOCHONDRIA: CARBAMYL PHOSPHATE SYNTHETASE.** Clarke S *J Biol Chem* 251: 950-61, 25 Feb 76 (Eng) \*DL/76NOV57

AMINO ACIDS (analysis); ANIMAL EXPERIMENTS; CARBAMYL PHOSPHATE SYNTHASE (AMMONIA) (metabolism, isolation & purification); CATTLE; ESCHERICHIA COLI (enzymology); FETUS; MACROMOLECULAR SYSTEMS; MITOCHONDRIA, LIVER (enzymology, metabolism); MOLECULAR WEIGHT; PHOSPHOTRANSFERASES, ATP (metabolism); PROTEIN CONFORMATION; RATS; SPECIES SPECIFICITY; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; UREA (metabolism).

**Clarkson TB**  
**ATHEROSCLEROSIS IN OLD WORLD MONKEYS.** Clarkson TB, Hamm TE, Bullock BC, Lehner ND *Primates Med* 9: 66-89, 1976 (Eng) \*DL/76NOV676

ANIMAL EXPERIMENTS; AORTA (pathology); ARTERIOSCLEROSIS (pathology); CERCOPITHECUS; CHOLESTEROL (blood); CORONARY DISEASE (pathology); CORONARY VESSELS (pathology); CYNOLOGUS MONKEYS; DIET; ATHEROGENIC; DISEASE MODELS, ANIMAL; FEMALE; MACACA RADIATA; MACACA; MALE; MONKEYS, RHESUS MONKEYS; SEX FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

**Clauss RH**  
**EVALUATION OF THE USE OF MICROCIRCULATORY FINDINGS IN THE ANALYSIS OF CLINICAL DISEASE.** Redisch W, Rouen LR, Terry EN, Clauss RH *Bibl Anat* 13: 362-3, 1975 (Eng) DL/76NOV352

**Clowes GH Jr**  
**EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK?** O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

## Diabetes Literature—Author Index

### Clumeck N

#### Clumeck N

**TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES.** Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J 2: 394-6, 14 Aug 76 (Eng)* \*DL/76NOV22

**BLOOD SUGAR (analysis); DIABETIC COMA (drug therapy); HUMAN; HYDROXYBUTYRATES (blood); INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage, blood, therapeutic use); TIME FACTORS.**

#### Cobbold S

**LACTIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR.** Ames AC, Cobbold S, Maddock J *Br Med J 4: 611-3, 13 Dec 75 (Eng)* \*DL/76NOV645

#### Cogoli A

**THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS.** PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *In: Gardsos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

#### Cohen J

**A SELECTED REVIEW OF CURRENT RETINAL RESEARCH AND STUDY.** Cohen J *Am J Optom Physiol Opt 53: 318-28, Jun 76 (Eng)* [38] DL/76NOV311

**ANIMAL EXPERIMENTS (analysis); DIABETIC RETINOPATHY; EYE NEOPLASMS; FEMALE; GREAT BRITAIN; HUMAN; MACULAR DEGENERATION; MALE; RETINAL DEGENERATION; RETINAL DETACHMENT; RETINAL DISEASES (etiology); RETINOBLASTOMA; RETROLENAL FIBROPLASIA; REVIEW; SICKLE CELL TRAIT (complications); UNITED STATES.**

#### Cohen P

**PROTEIN PHOSPHORYLATION AND HORMONE ACTION.** Cohen P, Antoniw JF, Nimmo HG, Yeaman SJ *Ciba Found Symp 41: 281-95, 1976 (Eng)* DL/76NOV41

**ADENOSINE CYCLIC 3',5' MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); ENZYME ACTIVATION (drug effects); EPINEPHRINE (pharmacodynamics); GLYCOGEN SYNTHETASE (metabolism); HISTONE KINASE (metabolism); INSULIN (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); PHOSPHORYLASE KINASE (metabolism); PROTEIN KINASE (metabolism).**

#### Collinge W

**EVALUATION OF A DISCRETE-SAMPLE COMPUTER-DIRECTED CLINICAL ANALYZER.** Forrester RL, Collinge W, Hashimoto P, Worrall J *J Clin Chem 22: 211-6, Feb 76 (Eng)* \*DL/76NOV458

#### Collins JA

**OBSEERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN.** Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH *Laryngoscope 86: 1272-9, Aug 76 (Eng)* DL/76NOV167

#### Collot F

**A NEW MATHEMATICAL APPROACH OF HORMONAL REGULATORY MECHANISMS DURING GROWTH.** PP. 3-11. Collot F *In: Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer.* New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV385

**GROWTH; HORMONES (physiology); MATHEMATICS; MODELS, BIOLOGICAL; MONOGRAPH.**

#### Combs RC

**EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLOROPLASTY.** Juler GL, Dagrad AE, Stempson SJ, Combs RC *Am J Surg 132: 243-8, Aug 76 (Eng)* DL/76NOV315

#### Comty CM

**A REASSESSMENT OF THE PROGNOSIS OF DIABETIC PATIENTS TREATED BY CHRONIC HEMODIALYSIS (CHD).** Comty CM, Kjellson D, Shapiro FL *Trans Am Soc Artif Intern Organs 22: 404-11, 1976 (Eng)* DL/76NOV264

**ADULT; AGED; ANIMAL EXPERIMENTS (analysis); ARTERIOVENOUS SHUNT, SURGICAL; BLINDNESS (complications); BLOOD VESSEL PROSTHESIS; CAROTID ARTERIES (transplantation); CATTLE; DIABETIC NEPHROPATHIES (complications, mortality, therapy); DIABETIC RETINOPATHY (complications); FEMALE; HEMODIALYSIS (adverse effects); HOSPITALIZATION; HUMAN; KIDNEY FAILURE, CHRONIC (mortality, therapy); MALE; MIDDLE AGE; MINNESOTA; PERICARDITIS (etiology); PROGNOSIS; TRANSPLANTATION, HETEROLOGOUS.**

#### Conev K

**CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE.** Conev K, Raikova M, Boneva M *Folia Med (Plovdiv) 17: 3-8, 1975 (Eng)* \*DL/76NOV494

**AGED; AGING; ATHEROSCLEROSIS (metabolism); BLOOD PROTEINS (metabolism, analysis); FEMALE; HUMAN; LIPIDS (metabolism, blood); MALE.**

#### Conlon TP

**INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE.** Christophe JP, Conlon TP, Gardner JD *J Biol Chem 251: 4629-34, 10 Aug 76 (Eng)* DL/76NOV87

#### Conner MJ

**DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res 6: 380-6, 1975 (Eng)* DL/76NOV80

#### Constantinescu A

**[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA]** Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern] 28: 217-22, May-Jun 76 (Rum)* DL/76NOV233

#### Contini S

**[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]** Cavazzini MG, Papadà F, Banchini E, Marchesi L, Contini S, Pampari GC, Gruidi A, Butturini U *Boll Soc Ital Biol Sper 52: 685-90, 30 MAY 76 (Ita)* DL/76NOV1

#### Coore HG

**CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN.** Field B, Coore HG *Biochem J 156: 333-7, 15 May 76 (Eng)* DL/76NOV366

#### Copinschi G

**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copinschi G, Leclercq-Meyer V, Virasoro E, Hermite M, Vanhaest L, Golstein J, Leclercq R, Ferry F, Robyn C *Horm Metab Res 8: 226-31, May 76 (Eng)* DL/76NOV72

**ADULT; BLOOD SUGAR (metabolism); CORTICOTROPIN (blood); FATTY ACIDS, NESTERIFIED (blood); FSH (blood); GLUCAGON (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); LH (blood); MALE; PITUITARY GLAND (drug effects, physiology); PROLACTIN (blood); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (blood); THYROTROPIN (blood).**

#### Corner AH

**EFFECT OF COLD STRESS ON RAPESEED OIL FED RATS.** Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids 11: 6-8, Jan 76 (Eng)* \*DL/76NOV547

#### Corsin A

**DEPENDENCE OF MYOCARDIAL REDOX SYSTEMS ON THE CONCENTRATION OF EXOGENOUS SUBSTRATE.** Moravec J, Corsin A, Hatt PY *Recent Adv Stud Cardiac Struct Metab 8: 167-77, 1975 (Eng)* \*DL/76NOV574

#### Coruzzi P

**GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE.** Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavarotta A *Nephron 17: 136-43, 1976 (Eng)* DL/76NOV187

#### Cotton ME

**SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY.** Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res 10: 713-20, Aug 76 (Eng)* DL/76NOV203

#### Coupar IM

**STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS.** Coupar IM, McColl I *Gut 16: 759-65, Oct 75 (Eng)* \*DL/76NOV651

**ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis, metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); ENTEROTOXINS (pharmacodynamics); GLUCOSE (metabolism, analysis, antagonists & inhibitors); INTESTINAL ABSORPTION (drug effects); INTESTINE, SMALL (drug effects); ISOPROTERENOL (pharmacodynamics); JEJUNUM (drug effects, metabolism, cytology); MALE; PERFUSION (methods); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); RATS; SODIUM (metabolism); WATER (metabolism).**

#### Couston DR

**IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS.** Lewis SB, Murray WK, Wallin JD, Couston DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol 48: 260-7, Sep 76 (Eng)* DL/76NOV195

#### Coy DH

**INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT.** Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol 4: 79-88, Jan 76 (Eng)* \*DL/76NOV491

## Diabetes Literature—Author Index

Davison TF

### Crane CW

**LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES.** Bogie W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

### Crossley JR

**THE EFFECT OF N-ACYGLUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT.** Ashcroft SJ, Crossley JR, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

### Crossley PC

**THE EFFECT OF N-ACYGLUCOSAMINES ON THE BIOSYNTHESIS AND SECRETION OF INSULIN IN THE RAT.** Ashcroft SJ, Crossley JR, Crossley PC *Biochem J* 154: 701-7, 15 Mar 76 (Eng) DL/76NOV358

### Cryer A

**THE CONTROL OF LIPOPROTEIN LIPASE. PP. 102-10.** Cryer A, Davies P, Robinson DS *In* *0 Hautvast JGAI, et al., ed. Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

ADIPOSE TISSUE (cytology, enzymology); ANIMAL EXPERIMENTS (analysis); ENDOTHELIUM (cytology, enzymology); FATTY ACIDS (blood); GLUCAGON (blood, physiology); HORMONES (physiology); HUMAN; INSULIN (blood, physiology); LIPOPROTEIN LIPASE (metabolism); REVIEW; TRIGLYCERIDES (blood).

### Csaky TZ

**ACTIVE TRANSPORT OF ELECTROLYTES AND NONELECTROLYTES IN THE INTESTINAL EPITHELIUM. PP. 99-106.** Csaky TZ *In* *Gardos G, Szasz I, ed. Biomembranes structure and function.* Amsterdam, North-Holland, 1975. WG FE322 9th 1974 v.35. (Eng) \*DL/76NOV386

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; FROGS; GLUCOSE (metabolism); INTESTINAL ABSORPTION (drug effects); INTESTINAL MUCOSA (metabolism); KINETICS; LITHIUM (metabolism); MAGNESIUM (metabolism); MANNITOL (metabolism); METHYLGLUCOSIDES (metabolism); MONOGRAPH; OUABAIN (pharmacodynamics); PHENYLALANINE (metabolism); PHILIPPINES; POTASSIUM (metabolism); RANA PIPIENS; SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

### Curatola G

**LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES.** Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

### Curto M

**PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES.** Rinaudo MT, Ponzetto C, Curto M, Betta PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84

### Daane TA

**IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS.** Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

### Dachsel R

**[CATAMINISTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS]** Bock R, Wieczorek V, Dachsel R *Z Aerztl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

### DaCosta H

**RADIORESPIROMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE.** DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) \*DL/76NOV532

CARBON DIOXIDE (metabolism); CARBON RADIOISOTOPES; CHILD; CHILD, PRESCHOOL; FATTY LIVER (metabolism); GALACTOSE (metabolism); GLUCOSE (metabolism); HUMAN; INDIA; INFANT; LIVER CIRRHOSIS (metabolism, familial & genetic); SYNDROME.

### Daele JJ

**[A CASE OF MUCORMYCOSIS]** Daele JJ, De Vos JL *Acta Otorhinolaryngol Belg* 29: 1030-40, 1975 (Fre) DL/76NOV294

ADULT; AMPHOTERICIN B (therapeutic use); CASE REPORT; DIABETES MELLITUS (complications); EYE (surgery); HUMAN; MALE; MUCORALES (isolation & purification); MUCORMYCOSIS (complications, pathology, therapy); NECROSIS (etiology); PALATE.

### Dagradis AE

**EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLORPLASTY.** Juler GL, Dagradis AE, Stempien SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

### Dahm CH Jr

**EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM.** Hertelendy F, Dahm CH Jr, Mueller EJ *Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

### Daines TL

**A SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF GLUCOSE IN BLOOD SERUM.** Daines TL, Morse KW *J Chem Educ* 53: 126-7, Feb 76 (Eng) \*DL/76NOV521

BLOOD SUGAR (analysis); CHEMISTRY (education); HUMAN; SPECTROPHOTOMETRY (methods).

### Daly MM

**EFFECTS OF AGE AND HYPERTENSION ON UTILIZATION OF GLUCOSE BY RAT AORTA.** Daly MM *Am J Physiol* 230: 30-3, Jan 76 (Eng) \*DL/76NOV624

AGING; ANIMAL EXPERIMENTS; AORTA (metabolism, analysis); CARBON DIOXIDE (metabolism); COMPARATIVE STUDY; DNA (metabolism); GLUCOSE (metabolism); HYPERTENSION (metabolism); LACTATES (metabolism); LIPOS (metabolism); MALE; ORGAN WEIGHT; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Damadian R

**LETTER: ENERGY REQUIREMENTS OF MEMBRANE PUMPS.** Minkoff L, Damadian R *N Engl J Med* 292: 162-3, 16 Jan 75 (Eng) \*DL/76NOV669

### Danish Gla

**[CONCOMITANT DISEASES IN MACROFOLIAL MYOCARDIAL INFARCT]** Danish Gla, Guseva NP *Vrach Delo* 72-6, Dec 75 (Rus) DL/76NOV269

ADULT; AGED; CORONARY DISEASE (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GASTROINTESTINAL DISEASES (complications); HUMAN; HYPERTENSION

(complications); LUNG DISEASES (complications); MALE; MIDDLE AGE;

MYOCARDIAL INFARCT (complications); RHEUMATIC HEART DISEASE (complications); UROLOGIC DISEASES (complications).

### Danney MM

**INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY.** Freeman JA, Stegink LD, Witline MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

### Das I

**EFFECT OF HEART WORK AND INSULIN ON THE INCORPORATION OF [<sup>14</sup>C]GLUCOSE INTO HEXOSE PHOSPHATES, URIDINE DIPHOSPHATE GLUCOSE AND GLYCOGEN IN THE NORMAL AND INSULIN-DEFICIENT PERFUSED RAT HEART UNDER WORKING AND NON-WORKING CONDITIONS.** Das I, Chain ER *Biochem J* 154: 765-72, 15 Mar 76 (Eng) DL/76NOV359

ANIMAL EXPERIMENTS (analysis); COMPARATIVE STUDY; DIABETES MELLITUS (chemically induced, metabolism); GLUCOSE (metabolism); GLYCOGEN (biosynthesis); HEXOSEPHOSPHATES (biosynthesis); IMMUNE SERUMS (pharmacodynamics); IN VITRO; INSULIN ANTIBODIES; INSULIN (physiology); MALE; MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); RATS; STREPTOZOTOCIN; URIDINE DIPHOSPHATE GLUCOSE (biosynthesis); URIDINE DIPHOSPHATE SUGARS (biosynthesis).

### Dash R

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

### Davies P

**THE CONTROL OF LIPOPROTEIN LIPASE. PP. 102-10.** Cryer A, Davies P, Robinson DS *In* *0 Hautvast JGAI, et al., ed. Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

### Davila N

**[SECRETION OF GROWTH HORMONE IN ACROMEGALY]** Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

### Davis SW

**LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE.** Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

### Davison TF

**CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL.** Davison TF, Langslow DR *Comp Biochem Physiol* [A] 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CHICKENS; GLUCONEOGENESIS; GLYCERIN (metabolism); KETO ACIDS (metabolism); LACTATES (metabolism); LIVER GLYCOGEN (metabolism); PYRUVATES (metabolism); STARVATION.

## Diabetes Literature—Author Index

### DeBoer B

#### De Boer B

CHANGES IN BLOOD CONSTITUENTS IN RATS ADMINISTERED MORPHINE AND SUBJECTED TO HE-O2 AT 11 ATA. De Boer B, Tofano M *Aviat Space Environ Med* 47: 151-3, Feb 76 (Eng) \*DL/76NOV635

ANIMAL EXPERIMENTS; ATMOSPHERIC PRESSURE; AVIATION MEDICINE; BLOOD PROTEINS; BLOOD SUGAR (analysis); EMBOLISM, AIR (blood); HEMATOCRIT; MORPHINE (administration & dosage, adverse effects); POTASSIUM (blood); RATS.

#### De Lean A

CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE. Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

#### de Leiva A

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

#### De Palo C

ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT. Federip G, Udeschini G, De Palo C, Sicolo N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

#### De Troyer A

TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES. Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

#### De Vos JL

[A CASE OF MUCORMYCOSIS] Daele JJ, De Vos JL *Acta Otorhinolaryngol Belg* 29: 1030-40, 1975 (Fre) DL/76NOV294

#### Deb S

MAINTENANCE REQUIREMENT AND ENERGETIC EFFICIENCY OF LEAN AND OBESE ZUCKER RATS. Deb S, Martin RJ, Hershberger TV *J Nutr* 106: 191-7, Feb 76 (Eng) \*DL/76NOV533

ANIMAL EXPERIMENTS; BODY WEIGHT; DIET; DIETARY FATS; DIETARY PROTEINS; ENERGY METABOLISM; MALE; MINERALS; NITROGEN (metabolism); OBESITY (metabolism); PROTEINS (metabolism); RATS; THINNESS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

#### Debnam ES

EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

ANIMAL EXPERIMENTS; DIETARY CARBOHYDRATES (metabolism); ELECTROPHYSIOLOGY; FASTING; GALACTOSE (metabolism); GLUCOSE (metabolism); HAMSTERS; INTESTINAL ABSORPTION; JEJUNUM (metabolism, physiology); KINETICS; MALE; METHIONINE (metabolism); METHYLGALUCOSIDES (metabolism); METHYLGLYCOSIDES (metabolism); RATS; STARVATION (metabolism); VALINE (metabolism).

#### Decoulix M

[COMBINATION OF ORAL HYPOGLYCEMIC AGENTS] Decoulix M *Lille Med 21 spec no*: 263-5, 1976 (Fre) DL/76NOV170

ADULT; BIGUANIDES (administration & dosage, therapeutic use); DIABETES MELLITUS (drug therapy); DRUG THERAPY, COMBINATION; HUMAN; SULFONAMIDES (administration & dosage, therapeutic use).

#### Deftofs LJ

SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE. Deftofs LJ, Lorenzi M, Bohanon N, Tsakalakian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

ADULT; EDTA (pharmacodynamics); FEMALE; GLUCAGON (blood); HUMAN; HYPERPARATHYROIDISM (metabolism); INFUSIONS, PARENTERAL; MALE; MIDDLE AGE; PARATHYROID HORMONE (blood, metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

#### Degauke JP

PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION. Vanhaelst L, Degauke JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV501

#### Deitrich H

[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATURATION DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)] Holzl VM, Lutje D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

#### Dekarz B

[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONAMIDE] Brzozowski Z, Dekarz B, Angielski S, Wojcikowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) DL/76NOV298

#### Del Valle Nunez CJ

[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

BLOOD SUGAR (metabolism); CHILD, PRESCHOOL; COMPARATIVE STUDY; DIPHENYLHYDANTOIN (therapeutic use); ENGLISH ABSTRACT; EPILEPSY (blood, drug therapy); FEMALE; HUMAN; INSULIN (blood, secretion); MALE; PANCREAS (drug effects, secretion); SECRETORY RATE; STIMULATION, CHEMICAL; TOLBUTAMIDE (pharmacodynamics).

#### Demaille J

[THE ANNUAL GLUCIDO-LIPID CYCLE IN A VARANID OF SENEGER] Cisse M, Demaille J *C R Soc Biol (Paris)* 169: 1084-9, 1975 (Fre) \*DL/76NOV451

#### Demel RA

THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

#### DeMontis MG

POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN. Tagliamonte A, DeMontis MG, Olianas M, Onali P, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

#### Denbeigh P

PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS. Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

#### DenBesten L

INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Witting MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

#### Denizot JP

ENZYME ACTIVITY DURING THE METABOLISM OF GLYCOGEN. I. DEMONSTRATION OF PHOSPHORYLASES IN THE SENSORY CELLS OF THE TUBEROUS ORGAN OF GNATHONEMUS (MORMYRIDAE). HISTOCHEMICAL AND ULTRASTRUCTURAL METHODS. Denizot JP *Histochemistry* 45: 319-29, 19 Dec 75 (Eng) \*DL/76NOV506

ANIMAL EXPERIMENTS; CYTOPLASMIC GRANULES (ultrastructure); ELECTRICITY; ENZYME ACTIVATION; FISHES (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (analysis, metabolism); HISTOCYTOCHEMISTRY; POLYSACCHARIDES (analysis); RECEPTORS, NEURAL (enzymology, ultrastructure); 1,4 ALPHA-GLUCAN BRANCHING ENZYME (metabolism).

#### Desai AG

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

#### DeShazo CV

RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT. Shons AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

#### Devis G

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

#### Di Biase M

[TORSADES DE POINTES (CASE REPORTS)] Calabrese P, Franchini G, Di Biase M, Latorre A, Lenti ML, Antonelli G *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

#### Di Cillo M

[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

#### Di Landro A

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRES-

## Diabetes Literature—Author Index

Drummond KN

**SIN IN MAN.** Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

**Diethelm AG**

**ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS.** Diethelm AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

**ADOLESCENCE; ADULT; CATARACT** (chemically induced); **CHILD; CREATININE (blood); CUSHINGS SYNDROME** (chemically induced); **DIABETES MELLITUS** (complications); **FEMALE; FEMUR HEAD NECROSIS** (chemically induced); **GRAFT REJECTION; GROWTH DISORDERS** (chemically induced); **HUMAN; HYPERTENSION** (chemically induced); **KIDNEY (transplantation); MALE; MIDDLE AGE; OBESITY** (chemically induced); **PREDNISONE (administration & dosage, adverse effects, therapeutic use); TRANSPLANTATION, ALLOGENEIC.**

**Dimitriu CG**

**EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT.** Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

**ACUTE DISEASE; ADULT; AGED; DRUG EVALUATION; ENGLISH ABSTRACT; GLUCOSE (therapeutic use); HUMAN; INSULIN (therapeutic use); MIDDLE AGE; MYOCARDIAL INFARCT (drug therapy); POTASSIUM (therapeutic use); PROPRANOLOL (therapeutic use).**

**Ditzel J**

**CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS.** Ditzel J, Heuer HE *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

**BASAL METABOLISM; CAPILLARIES (pathology); CONJUNCTIVA (blood supply); DIABETES MELLITUS (metabolism, pathology); HUMAN; SKIN (blood supply); VASOMOTOR SYSTEM (pathology).**

**Ditzov SP**

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchev II, Shishcheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

**Dobrzanski T**

**PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPINE LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM.** Dobrzanski T, Pieschl D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

**ALCOHOLISM (blood); BLOOD SUGAR; CHLORMETHIAZOLE (pharmacodynamics); COMPARATIVE STUDY; CORTICOTROPIN (blood); DELIRIUM TREMENS (blood); ENGLISH ABSTRACT; HALLUCINATIONS (blood); HALOPERIDOL (pharmacodynamics); HUMAN; INSULIN (blood); MALE; PSYCHOSES, ALCOHOLIC (blood); RESERPINE (pharmacodynamics); SOMATOTROPIN (blood); THYROID HORMONE (blood); TIME FACTORS; HYDROXYCORTICOSTEROIDS (blood).**

**Dolgov AV**

**[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA]** Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biochimia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

**ADENOSINE TRIPHOSPHATASE (metabolism); AMMONIUM COMPOUNDS (pharmacodynamics); ANIMAL EXPERIMENTS; ANTIMYCIN A (pharmacodynamics); CALCIUM (pharmacodynamics); CYANIDES (pharmacodynamics); ENGLISH ABSTRACT; MEMBRANES (drug effects); MITOCHONDRIA (ultrastructure); MITOCHONDRIA, LIVER (metabolism, drug effects); MITOCHONDRIAL SWELLING (drug effects); POTASSIUM (metabolism, pharmacodynamics); RATS; ROTENONE (pharmacodynamics); VALINOMYCIN (pharmacodynamics).**

**Dolman L**

**PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS.** Thiessen JJ, Sellers EM, Denbeigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

**Dominguez MC**

**EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO.** Dominguez MC, Herrera E *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

**ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; EPIDIDYMIS (metabolism); EPINEPHRINE (pharmacodynamics); GLYCERIN (biosynthesis); IN VITRO; MALE; RATS; STIMULATION, CHEMICAL.**

**Donovan WH**

**DIABETIC AMYOTROPHY--A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED.** Donovan WH, Sumi SM *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

**BIOPSY; CASE REPORT; DIABETES MELLITUS (complications, rehabilitation); DIABETIC NEUROPATHIES (pathology); DOSE-RESPONSE RELATIONSHIP, DRUG; ELECTROMYOGRAPHY; FEMALE; HUMAN; INSULIN (administration & dosage); LEG (innervation); MALE; MIDDLE AGE; MOTOR NEURONS (physiopathology); MUSCLES (innervation, pathology); MYOTONIA ATROPHICA (pathology, physiopathology); NEURAL CONDUCTION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

**Doria I**

**THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES.** Cedola N, Cabarrou A, Auciello N, Doria I, Ponc de Leon H, Baylon N *Acta Diabetol Lat* 12: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

**Dormandy JA**

**ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY.** Hoare EM, Barnes AJ, Dormandy JA *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

**Dostal M**

**SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS.** Sladek T, Filkula J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

**Douglas RG Jr**

**MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS.** Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

**Doxey DL**

**BIOCHEMICAL STUDIES OF THE COLLAPSE SYNDROME IN SUCKLED CALVES.** Barber DM, Doxey DL *Vet Rec* 97: 424-8, 29 Nov 75 (Eng) \*DL/76NOV595

**Doyle RJ**

**A MECHANISM FOR TOBACCO SMOKE-INDUCED ALLERGY.** Keller KF, Doyle RJ *J Allergy Clin Immunol* 57: 278-82, Mar 76 (Eng) \*DL/76NOV528

**Draganovici M**

**[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT.]** Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

**Dreux C**

**[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES]** Bousquet B, Dreux C, Stachow A *Ann Dermatol Syphiligr (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

**Drewes LR**

**THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM.** Betz AL, Gilbow DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

**Drexler M**

**[GLOMERULAR FILTRATION RATE IN DIABETIC CHILDREN MEASURED BY ISOTOPE METHOD]** Drexler M, Ortwein V *Orv Hetil* 117: 1878-83, 1 Aug 76 (Hung) DL/76NOV200

**ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (diagnosis); DIABETIC NEPHROPATHIES (diagnosis); FEMALE; GLOMERULAR FILTRATION RATE; GLOMERULONEPHRITIS (diagnosis); HUMAN; MALE; YTTRIUM RADIOISOTOPES (diagnostic use).**

**Drouin J**

**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Leau A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

**ANIMAL EXPERIMENTS; CELLS, CULTURED; DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG INTERACTIONS; ESTRADIOL (pharmacodynamics); FEMALE; MALE; PITUITARY GLAND (secretion); PITUITARY GLAND, ANTERIOR (secretion, cytology); PROLACTIN (secretion, blood); PROPLTHIOURACIL (pharmacodynamics); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROID HORMONE (secretion, blood); THYROXINE (pharmacodynamics).**

**Drummond KN**

**EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULI.** Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

## Diabetes Literature—Author Index

### Dry J

#### Dry J

[DRUGS INDUCED HYPOGLYCEMIA] Dry J, Pradialer A *Sem Hop Ther* 52: 231-4, Apr 76 (Fre) DL/76NOV245  
ADULT; AGED; CHILD; PRESCHOOL; FEMALE; HUMAN; HYPOGLYCEMIA (chemically induced); INFANT; INSULIN (adverse effects, therapeutic use); MALE; MIDDLE AGE; SULFONYLUREA COMPOUNDS (adverse effects, therapeutic use).

#### Dubois PM

GASTROINTESTINAL SOMATOSTATIN CELLS IN THE HUMAN FETUS. Dubois PM, Paulin C *Cell Tissue Res* 166: 179-84, 12 Feb 76 (Eng) \*DL/76NOV455  
ANENCEPHALUS; FETUS (analysis); FLUORESCENT ANTIBODY TECHNIC; GASTROINTESTINAL HORMONES; GASTROINTESTINAL SYSTEM (analysis); HUMAN; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis, physiology).

#### Ducimetiere P

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warnez JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92  
ADULT; ALPHA GLOBULINS (analysis); BETA GLOBULINS (analysis); BLOOD PRESSURE; BLOOD PROTEIN ELECTROPHORESIS; CHOLESTEROL (blood); CORONARY DISEASE (blood, occurrence); DIABETES MELLITUS (blood); FRANCE; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood); PROBABILITY; PROSPECTIVE STUDIES; RETROSPECTIVE STUDIES; RISK.

#### Duckworth WC

INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Posenberger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

#### Dumont JE

MOLECULAR TRANSPORT IN THYROID SLICES. Paiva M, Sande JV, Swilens S, Dumont JE *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) \*DL/76NOV428

#### Dunstone MW

DIABETES MELLITUS. A REPORT FROM THE AUSTRALIAN GENERAL PRACTITIONER MORBIDITY AND PRESCRIBING SURVEY 1969-1974. Dunstone MW *Aust Fam Physician* 5: 479-80, May 76 (Eng) DL/76NOV347  
ADOLESCENCE; ADULT; AGE FACTORS; AGED; AUSTRALIA; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (occurrence); FEMALE; HUMAN; MALE; MIDDLE AGE; SEASONS; SEX FACTORS.

#### Durand D

[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)] Durand D, Prelot M, Raoul Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483  
ANIMAL EXPERIMENTS; CALCIUM (blood); ENGLISH ABSTRACT; PHOSPHATES (blood); PHOSPHATES, INORGANIC (blood, urine); RATS; SOMATOTROPIN (pharmacodynamics).

#### Dusitsin N

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyoon M, Dusitsin N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

### Dutra FR

SPONTANEOUS DIABETES MELLITUS IN A TURTLE. Frye FL, Dutra FR, Carney JD, Johnson B *Vet Med Small Anim Clin* 71: 935-9, Jul 76 (Eng) DL/76NOV267

### Dutton HJ

DUAL-LABELED TECHNIQUE FOR HUMAN LIPID METABOLISM STUDIES USING DEUTERATED FATTY ACID ISOMERS. Emken EA, Rohweder WK, Dutton HJ *Lipids* 11: 135-42, Feb 76 (Eng) \*DL/76NOV548

### Dutu A

[URICEMIA IN DIABETES MELLITUS: VARIATIONS AND SIGNIFICANCE] Dutu A, Hincu N, Hoinarescu E *Rev Med Intern [Med Intern]* 28: 227-34, May-Jun 76 (Rum) DL/76NOV234  
ADULT; AGE FACTORS; DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (complications); ENGLISH ABSTRACT; FEMALE; GOUT (etiology); HUMAN; MALE; MIDDLE AGE; SEX FACTORS; URIC ACID (blood).

### Dyer RG

LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

### Dzhan-Temirova TS

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhan-Temirova TS, Bannyi IP, Petuin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) DL/76NOV57

### Edwards CR

RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS. Page MM, Asmal AC, Edwards CR *Q J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

### Effmann E

EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99MTC PERTECHNETATE IN MICE. Khettry J, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

### Eggen DA

REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS. Strong JP, Eggen DA, Starry HC *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

### El-Denshary EE

EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS. El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378  
ANIMAL EXPERIMENTS (analysis); CHLORPROMAZINE (pharmacodynamics); FEMALE; GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (analysis, secretion); ISLANDS OF LANGERHANS (drug effects, secretion); PHENYL BUTAZONE (pharmacodynamics); RATS; SALICYLATES (pharmacodynamics); STIMULATION, CHEMICAL; TOLBUTAMIDE (pharmacodynamics).

### El-Fiki AF

THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS. Shalash BA,

El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

### El-Hoshy M

THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS. Shalash BA, El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

### Eloy R

UNUSUAL SPECIFICITIES OF ANTIBODIES TO F1  
GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garaud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

### Elsair J

[THE EFFECTS OF ARGININE AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsair J, Poey J, Bakir F, Reggabi M, Benouiche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

ANIMAL EXPERIMENTS; ARGININE (pharmacodynamics); ASPARTIC ACID (pharmacodynamics); DRUG INTERACTIONS; ENGLISH ABSTRACT; MALE; NITROGEN (metabolism); RATS; SOMATOTROPIN (pharmacodynamics).

### Emken EA

DUAL-LABELED TECHNIQUE FOR HUMAN LIPID METABOLISM STUDIES USING DEUTERATED FATTY ACID ISOMERS. Emken EA, Rohweder WK, Dutton HJ *Lipids* 11: 135-42, Feb 76 (Eng) \*DL/76NOV548

ADULT; DEUTERIUM; ERYTHROCYTES (metabolism); FATTY ACIDS (metabolism); HUMAN; ISOMERISM; ISOTOPE LABELING (methods); LIPIDS (metabolism, blood); MALE; OLEIC ACIDS (metabolism); PHOSPHATIDYL CHOLINE (blood); PHOSPHATIDYL ETHANOLAMINE (blood); PHOSPHATIDYL INOSITOL (blood); PHOSPHATIDYL SERINE (blood); PHOSPHOLIPIDS (blood).

### Emme L

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

### Emmrich P

THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS. Emmrich P, Fuchs U, Heinke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160  
CAPILLARIES (pathology); CILIA (pathology); DIABETES MELLITUS (pathology); ENDOTHELIUM (pathology); EPITHELIUM (pathology); FEMALE; HUMAN; PLACENTA (blood supply, pathology); PREGNANCY IN DIABETES (pathology); PREGNANCY.

### Endo J

ENDOCRINE STUDIES IN DEPRESSION. PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E *In 9th Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

### Endo M

ENDOCRINE STUDIES IN DEPRESSION. PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E *In 9th Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

ADOLESCENCE; ADRENAL CORTEX (physiopathology); ADULT; BLOOD SUGAR (analysis); CHILD; CORTICOTROPIN (blood);

## Diabetes Literature—Author Index

Favilli R

DEPRESSION (physiopathology, blood); ENDOCRINE GLANDS (physiopathology); FEMALE; HUMAN; HYDROCORTISONE (blood); MALE; MIDDLE AGE; MODELS, NEUROLOGIC; MONOGRAPH; PITUITARY GLAND, ANTERIOR (physiopathology); SOMATOTROPIN (blood).

Engelhardt R

OBSERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN. Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

Engelhardt B

MORPHOLOGICAL EFFECTS OF RAPESEED OIL IN RATS. I. SHORT-TERM STUDIES. Engelhardt B, Brunius E *Acta Med Scand [Suppl]* 15-26, 1975 (Eng) \*DL/76NOV609

ANIMAL EXPERIMENTS; DIETARY FATS; ERUCIC ACIDS (toxicity); FATTY ACIDS, UNSATURATED (toxicity); FEMALE; HEART (drug effects); LIPOIDOSIS (chemically induced, pathology); MALE; MYOCARDITIS (chemically induced, pathology); MYOCARDIUM (ultrastructure, metabolism); OILS (toxicity); RATS; TIME FACTORS.

Epstein IM

THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY. Zaretskaya RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV17

Epstein MF

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

AMNIOTIC FLUID (metabolism); ANIMAL EXPERIMENTS (analysis); BODY WEIGHT; FETAL DEATH; FETUS (metabolism); GLUCOSE TOLERANCE TEST; INFANT, NEWBORN; LECITHINS (metabolism); LUNG (metabolism); MONKEYS; PREGNANCY IN DIABETES (chemically induced); PREGNANCY; RHESUS MONKEYS; SPHINGOMYELINS (metabolism); STREPTOZOTOCIN.

Eremina SS

EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE. Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

Erickson RR

KINETIC STUDIES ON THE METABOLISM OF ETHYL MORPHINE BY ISOLATED HEPATOCYTES FROM ADULT RATS. Erickson RR, Holtzman JL *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

CELLS, CULTURED; CORTISONE (pharmacodynamics); ETHYL MORPHINE-N-DEMETHYLASE (metabolism); GLUCOSE (metabolism); INSULIN (pharmacodynamics); KINETICS; LIVER (enzymology); OXIDOREDUCTASES, N-DEMETHYLATING (metabolism); OXYGEN CONSUMPTION; RATS; THYROXINE (pharmacodynamics); TIME FACTORS.

Erkkola R

SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OES-

TROGEN THERAPY. Syvalahti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

Ernster L

MITOCHONDRIAL BIOENERGETICS: FACTS AND IDEAS. PP. 257-85. Ernster L *In Gardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) [157] \*DL/76NOV404

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; ANTIMYCIN A (pharmacodynamics); AUROVERTIN (pharmacodynamics); CHLOROPLASTS (metabolism); CYANIDES (pharmacodynamics); CYTOCHROME OXIDASE (metabolism); ENERGY TRANSFER; LIGHT; MEMBRANES (metabolism); MICROSCOPY, ELECTRON; MITOCHONDRIA (metabolism, drug effects, ultrastructure); MODELS, BIOLOGICAL; MONOGRAPH; OLIGOMYCIN (pharmacodynamics); OXIDATION-REDUCTION; OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION (drug effects); PHOTOSYNTHESIS, RATS; REVIEW; ROTENONE (pharmacodynamics).

Ershova LM

EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS. Bogoliubov VM, Ershova LM, Kaplan MA, Syzantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

Escher EC

INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS. Escher EC, Buell DN, Leikin SL *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

B-LYMPHOCYTES (metabolism); BINDING SITES; BINDING SITES, ANTIBODY; BONE MARROW CELLS (metabolism); CELL MEMBRANE (immunology); CHILD; FEMALE; HUMAN; INSULIN (metabolism); LEUKEMIA; LYMPHOBLASTIC (blood, metabolism); MALE; T-LYMPHOCYTES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. J.

Escobar del Rey F

CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

Estler CJ

DEPENDENCE ON AGE OF METHAMPHETAMINE-PRODUCED CHANGES IN THERMOREGULATION AND METABOLISM. Estler CJ *Experientia* 31: 1436-7, 15 Dec 75 (Eng) \*DL/76NOV482

AGE FACTORS; ANIMAL EXPERIMENTS; BLOOD SUGAR; BODY TEMPERATURE; REGULATION (drug effects); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; LIVER GLYCOGEN (metabolism); LIVER (drug effects); METHAMPHETAMINE (pharmacodynamics); MICE; OXYGEN CONSUMPTION (drug effects).

Etzel M

[CLINICAL TRIAL OF THE ANTIBACTERIAL COMBINATION SULFAMOXOLE/TRIMETHOPRIM (CN 3123/SIXTH COMMUNICATION: RESULTS OF COMPATIBILITY OF CN 3123 (AUTHORS TRANSL)]. Etzel M, Wiesenbergs W *Arzneim Forsch* 26: 678-83, 1976 (Ger) DL/76NOV382

ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (metabolism); CHILD; CHILD, PRESCHOOL; CLINICAL RESEARCH;

DIABETES MELLITUS (blood); DRUG COMBINATIONS; ENGLISH ABSTRACT; FEMALE; HUMAN; INFANT; KIDNEY (drug effects); LIVER (drug effects); MALE; MIDDLE AGE; SULFAMOXOLE (adverse effects); THYROID GLAND (drug effects); TRIGLYCERIDES (blood); TRIMETHOPRIM (adverse effects).

Etzrodt H

IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM. Etzrodt H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seyler Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

ANIMAL EXPERIMENTS; BINDING, COMPETITIVE; HUMAN; RADIOIMMUNOASSAY (methods); SOMATOTROPIN (blood, immunology); SWINE (blood).

Evans AJ

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV41

Evans E

THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET. Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

ADULT; CHOLESTEROL (blood); CREATININE (urine); DIET, REDUCING; DIETARY CARBOHYDRATES; DIETARY FATS; DIETARY PROTEINS; ENERGY METABOLISM; FEMALE; HUMAN; KETOSIS (etiology); LIPLIDS (blood); NITROGEN (urine); OBESITY (diet therapy); TRIGLYCERIDES (blood); URIC ACID (blood).

Ewald J

[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION] Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164

Farinholt J

ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION. Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

Farrell PM

FETAL LUNG LECITHIN METABOLISM IN THE GLUCOSE-INTOLERANT RHESUS MONKEY PREGNANCY. Epstein MF, Farrell PM, Chez RA *Pediatrics* 57: 722-8, May 76 (Eng) DL/76NOV205

Fateeva LA

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biochimia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

Favilli R

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSES] Palazzuoli V, Gragnoli G, Favilli R, Tangenelli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

## Diabetes Literature—Author Index

Fawcett CP

Fawcett CP

ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION. Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-85, Feb 76 (Eng) \*DL/76NOV470

THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO. Sundberg DK, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

Fechner PU

[NON-INFLAMMATORY DISEASES OF THE RETINA] Fechner PU *Buech Augenarzt* 67: 261-73, 1976 (Ger) DL/76NOV24

ADULT; AGED; DIABETIC RETINOPATHY (drug therapy); HUMAN; RETINAL DEGENERATION (drug therapy); RETINAL DISEASES (drug therapy); RETINAL VESSELS; RETROLENtal FIBROPLASIA (drug therapy); VASCULAR DISEASES (drug therapy).

Fenderspil G

ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT. Fenderspil G, Udeschini G, De Palo C, Sicoli N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); EXERTION; FASTING; FATTY ACIDS, NONESTERIFIED (blood); HYPOPHYSECTOMY; LIPID MOBILIZATION; MALE; MUSCLES (physiology, drug effects); RATS; SOMATOTROPIN (blood).

Fekete T

[DIABETIC COMA ASSOCIATED WITH ACUTE PANCREATITIS] Ticlete I, Fekete T *Rev Med Intern [Med Intern]* 28: 211-6, May-Jun 76 (Rum) DL/76NOV232

Felber JP

PROLONGED CORTICOTROPIC ACTION OF SYNTHETIC HUMAN ACTH IN MAN. Baumann G, Felber JP *J Clin Endocrinol Metab* 42: 160-3, Jan 76 (Eng) \*DL/76NOV523

Feld S

LETTER: INSULIN LIPOATROPHY. Sachson RA, Feld S *JAMA* 236: 820-1, 16 Aug 76 (Eng) DL/76NOV147

Felig P

EFFECT OF PROTEIN INGESTION ON SPLENCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS. Wahren J, Felig P, Hagenfeld L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

Fell GS

ESTIMATION AND INTERPRETATION ON PLASMA ZINC FRACTIONS. Burns RR, Fell GS *Scott Med J* 21: 153-4, Jul 76 (Eng) DL/76NOV244

Felus E

[IMMUNOLOGICAL DISORDERS IN DYSGAMMAGLOBULINEMIA TYPE VII IN A DIABETIC PATIENT] Rogala E, Felus E, Wiegli A *Pol Tyg Lek* 31: 793-5, 10 May 76 (Pol) DL/76NOV209

Fenczi M

POTENTIAL ANTIHYPOLYTIC ACTIVITY OF SULOCTIDIL. Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

Ferland L

INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

ANIMAL EXPERIMENTS; MALE; MORPHINE (pharmacodynamics); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analog & derivatives, pharmacodynamics); SOMATOTROPIN (blood); STRUCTURE-ACTIVITY RELATIONSHIP; THIAMYLAL (pharmacodynamics); TIME FACTORS.

Fernandez J

[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HAE莫OGLOBINURIA (AUTHORS TRANSL)] Angulo P, Fernandez J, Lasierro J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

Fernandez-Rocha L

IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 31s-32s, Jul 76 (Eng) DL/76NOV192

Ferraro JJ

P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS. Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng) \*DL/76NOV460

AUTOANALYSIS; BLOOD SUGAR (analysis); COMPARATIVE STUDY; EVALUATION STUDIES; GLUCOSE OXIDASE; GLUCOSEOPHOSPHATE DEHYDROGENASE; HEXOKINASE; HUMAN; HYDRAZINES; HYDROXYBENZOIC ACIDS; INDICATORS AND REAGENTS; PHILIPPINES; TOLUIDINES.

Fery F

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinchi G, Leclercq-Meyer V, Virasoro E, L'Hermitte M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

Feucht BU

REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN *ESCHERICHIA COLI*. Saier MH Jr, Feucht BU, Hofstader LJ *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

Feurle G

[SCHNYDERS CORNEAL DYSTROPHY AND HYPERLIPIDEDEMA (AUTHORS TRANSL)] Kaden R, Feurle G *Albrecht von Graefes Arch Klin Ophthalmol* 198: 129-38, 4 Feb 76 (Ger) \*DL/76NOV625

Fiedler J

ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION. Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

Field B

CONTROL OF RAT MAMMARY-GLAND PYRUVATE DEHYDROGENASE BY INSULIN AND PROLACTIN. Field B, Coore HG *Biochem J* 156: 333-7, 15 May 76 (Eng) DL/76NOV366

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HYDROCORTISONE (pharmacodynamics); INSULIN (blood, pharmacodynamics, physiology); LACTATION (drug effects); MAMMMAE (drug effects, enzymology); PREGNANCY; PROLACTIN (blood, pharmacodynamics, physiology); PYRUVATE DEHYDROGENASE COMPLEX (analysis, metabolism); RATS; STREPTOZOTOCIN (pharmacodynamics); TIME FACTORS; 2-BROMOERGOCRYPTINE (pharmacodynamics).

Fields M

TRANSFER OF [1-(14)C] PALMITATE BETWEEN MYOCARDIAL CELL FRACTIONS. Fields M, Gloster J, Harris P *J Mol Cell Cardiol* 7: 907-16, Dec 75 (Eng) \*DL/76NOV664

ALBUMINS (pharmacodynamics); ANIMAL EXPERIMENTS; CYTOPLASM (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); MALE; MICROSOMES (metabolism); MITOCHONDRIA (metabolism); MYOCARDIUM (metabolism, ultrastructure); OLEIC ACIDS (metabolism); PALMITATES (metabolism); PALMITIC ACIDS (metabolism); PHOSPHOLIPIDS (metabolism); RATS; SUBCELLULAR FRACTIONS (metabolism); SUCROSE (pharmacodynamics).

Filkula J

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkula J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

Filsell OH

GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE. Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

Fine SL

SOME PLAIN TALK ON DIABETIC RETINOPATHY. Fine SL *Sight Sav Rev* 46: 3-9, Spring 76 (Eng) DL/76NOV246

DIABETIC RETINOPATHY; HUMAN.

Finean JB

THE ROLE OF LIPID IN REGULATION OF MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE. Bertoli E, Finean JB, Griffiths DE *FEBS Lett* 61: 163-5, 15 Jan 76 (Eng) \*DL/76NOV485

Finkelstein FO

NEPHROTIC SYNDROME: ETIOLOGY, DIAGNOSIS, AND TREATMENT. Finkelstein FO, Haylett JP *Geriatrics* 31: 39-44, 48, AUG 76 (Eng) \*DL/76NOV66

AGED; AMYLOIDOSIS (complications); CHRONIC DISEASE; DIABETIC NEPHROPATHIES (complications); DIURETICS (therapeutic use); EDEMA (etiology); GLOMERULONEPHRITIS (complications); HUMAN; HYPERLIPIDEMIA (etiology); IMMUNOSUPPRESSIVE AGENTS (therapeutic use); KIDNEY DISEASES (complications); NEOPLASMS (complications); NEPHROSIS, LIPOID (complications); NEPHROTIC SYNDROME (diagnosis, etiology, therapy); PROTEINURIA (etiology); RENAL VEINS; REVIEW; SODIUM (metabolism); STEROIDS (therapeutic use); THROMBOSIS (complications).

## Diabetes Literature—Author Index

Fricke M

### Firouz Abadie H

**[SURGICAL INDICATIONS IN ARTERITIS OF THE LOWER EXTREMITIES IN 70-YEAR-OLD PATIENTS]** Firouz Abadie H *Phlebologie* 28: 483-91, Jul-Sep 75 (Fr) DL/76NOV221  
AGED; AMPUTATION; ARTERITIS (etiology, mortality, surgery); ATHEROMA (complications, mortality); BLOOD VESSEL PROSTHESIS; DIABETIC ANGIOPATHIES (mortality, surgery); ENDARTERECTOMY; HUMAN; LEG (blood supply, surgery); POSTOPERATIVE COMPLICATIONS; SYMPATHECTOMY.

### Fischer R

**IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL.** Sarma JS, Fischer R, Ikeda S, Bing RJ *Proc Soc Exp Biol Med* 151: 303-6, Feb 76 (Eng) \*DL/76NOV58

### Fitzgerald MG

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

### Flores-Carreon A

**[DESCRIPTION OF A METHOD FOR THE DETERMINATION OF GLUCOSE AND ALPHA GLUCOSIDASE]** Flores-Carreon A, Ruiz-Herrera J *Rev Lat Am Microbiol* 17: 225-6, Oct-Dec 75 (Spa) \*DL/76NOV581  
ENGLISH ABSTRACT; GLUCOSE (analysis); GLUCOSIDASES (analysis); METHODS.

### Floridi A

**CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL BLOOD LYMPHOCYTES.** Apollonji MC, Vasile C, Floridi A, Natali PG *Immunol Commun* 4: 433-63, 1975 (Eng) \*DL/76NOV654

### Folkard J

**TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY.** Kisselbach AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

### Fonyo A

**CARRIER MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA.** PP. 287-306. Fonyo A, Ligeti E, Palmieri F, Quagliariello E *In: Gardos G, Szasz I, ed. Biomembranes structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v35. (Eng) \*DL/76NOV388  
ACETATES (metabolism, pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (pharmacodynamics); DITHIONITROBENZOIC ACID (pharmacodynamics); ELECTRON TRANSPORT; ETHYLTHIALEIMIDE (pharmacodynamics); KINETICS; MEMBRANES (metabolism, drug effects); MERCURY (pharmacodynamics); MERSALYL (pharmacodynamics); MITOCHONDRIA (metabolism, drug effects); MITOCHONDRIAL SWELLING (drug effects); MODELS, BIOLOGICAL; MONOGRAPH; NAD (metabolism); OXIDATIVE PHOSPHORYLATION (drug effects); PHILIPPINES; PHOSPHATES (metabolism); PHOSPHATES, INORGANIC (metabolism).

### Foppiani E

**GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN.** Giordano G,

Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kbh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604

### Ford WC

**REGULATION OF MYOCARDIAL ENERGY METABOLISM.** Illingworth JA, Ford WC, Kobayashi K, Williamson JR *Recent Adv Stud Cardiac Struct Metab* 8: 271-90, 1975 (Eng) \*DL/76NOV575

### Forrester RL

**EVALUATION OF A DISCRETE-SAMPLE COMPUTER-DIRECTED CLINICAL ANALYZER.** Forrester RL, Collinge W, Hashimoto P, Worrall J *Clin Chem* 22: 211-6, Feb 76 (Eng) \*DL/76NOV458  
ALKALINE PHOSPHATASE (blood); ASPARTATE AMINOTRANSFERASE (blood); AUTOANALYSIS; BILIRUBIN (blood); BLOOD CHEMICAL ANALYSIS; BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CALCIUM (blood); COMPARATIVE STUDY; COMPUTERS, DIGITAL; EVALUATION STUDIES; QUALITY CONTROL; SERUM ALBUMIN (analysis).

### Forsham PH

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

### Fox H

**PLACENTAL CHANGES IN GESTATIONAL DIABETES. AN ULTRASTRUCTURAL STUDY.** Jones CJ, Fox H *Obstet Gynecol* 48: 274-80, Sep 76 (Eng) DL/76NOV197

### Foy JM

**EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITTED RATS TO AUTONOMIC AGENTS.** Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18  
ACETYLCHOLINE (pharmacodynamics); ALLOXAN DIABETES (physiopathology); ANIMAL EXPERIMENTS (analysis); AUTONOMIC DRUGS (pharmacodynamics); BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); FOOD DEPRIVATION; HEMODYNAMICS (drug effects); ISOPROTERENOL (pharmacodynamics); MALE; NOREPINEPHRINE (pharmacodynamics); OBESITY (familial & genetic, physiopathology); RATS; SPINAL CORD (physiology); STREPTOZOTOCIN.

### Francavilla A

**[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS]** Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163  
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); CHOLESTASIS (metabolism); GLUCAGON (administration & dosage, metabolism); HEPATITIS (metabolism); HUMAN; INJECTIONS, INTRAVENOUS.

### Franchini G

**[TORTADES DE POINTES (CASE REPORTS)]** Calabrese P, Franchini G, Di Biase M, Latorre A, Lentini ML, Antonelli G *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

### Fraser TR

**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kisselbach AH, Clarke P, Vydellung N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

### Freedman SH

**SOME PHYSIOLOGICAL AND BIOCHEMICAL MEASUREMENTS OVER THE MENSTRUAL CYCLE.** PP. 259-75. Freedman SH, Ramcharan S, Hoag E, Goldfine A *In: Ferin M et al., ed. Biorhythms and human reproduction.* New York, Wiley, 1974. QT 167 B616 1972. (Eng) \*DL/76NOV413

**ADOLESCENCE; ADULT; BLOOD PRESSURE (drug effects); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); CONTRACEPTIVES, ORAL, COMBINED (pharmacodynamics); CONTRACEPTIVES, ORAL, SEQUENTIAL (pharmacodynamics); ERYTHROCYTE COUNT; FEMALE; HEMATOCRIT; HEMOGLOBINOMETRY; HUMAN; LEUKOCYTE COUNT; MENSTRUATION; MIDDLE AGE; MONOGRAPH; PULSE (drug effects).**

### Freeman JB

**INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY.** Freeman JB, Steigink LD, Wittime MF, Thompson RG, Danney MM, Mason E, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

**AMINO ACIDS (metabolism); COMPARATIVE STUDY; GLUCOSE (metabolism); HUMAN; INFUSIONS, PARENTERAL; NITROGEN (metabolism); OBESITY (metabolism); SURGERY, OPERATIVE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Freminet A

**EFFECT OF FASTING ON GLUCOSE RECYCLING IN RATS.** Freminet A, Poyart C, Leclerc L, Gentil M *FEBS Lett* 61: 294-7, 15 Jan 76 (Eng) \*DL/76NOV487  
ANIMAL EXPERIMENTS; BODY WEIGHT; CALCIUM RADIOISOTOPES; CARBON DIOXIDE (metabolism); FASTING; GLUCOSE (metabolism); MALE; OXYGEN CONSUMPTION; RATS; RESPIRATION.

### Fremlin JH

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

### Freyss E

**[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT]** Berland H, Moessner F, Willard D, Freyss E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

### Frias JL

**GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE.** Rosenbloom AL, Frias JL *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10

### Fricke M

**[LETTER: OSTEOPOROSIS—CAUSED BY DECREASED BLOOD CIRCULATION IN THE BONES]** Krokowski E, Fricke M *Z Orthop* 114: 430-1, Jun 76 (Ger) DL/76NOV278

## Diabetes Literature—Author Index

### Friedman M

#### Friedman M

**CORRESPONDENCE: THE INFLUENCE OF GROWTH HORMONE ON CHOLESTEROL METABOLISM.** Friedman M, Byers SO *Metabolism* 25: 125-6, Jan 76 (Eng) \*DL/76NOV667

ACROMEGALY (metabolism); ADULT; AGED; CHOLESTEROL (blood); FEMALE; HUMAN; MALE; MIDDLE AGE; SOMATOTROPIN (blood); TRIGLYCERIDES (blood).

#### Friedman MI

**REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS.** Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

#### Friedman Y

**ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM** Yu S, Friedman Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

#### Fritz H

**ON THE RELATION OF GENITAL TO URINARY TRACT INFECTIONS. DIAGNOSTIC PROBLEMS.** PP. 193-9. Fritz H *In: Danielsson D, et al., ed. Genital infections and their complications. Stockholm, Almqvist & Wiksell, 1975.* WC 140 5988p 1974. (Eng) DL/76NOV117

ADOLESCENCE; ADULT; AGED; BACTERIOLOGICAL TECHNIQUES; BACTERIURIA (complications, diagnosis); CHILD; DIAGNOSIS; DIFFERENTIAL; FEMALE; GENITAL DISEASES, MALE (diagnosis); GLYCOSURIA (diagnosis); GYNECOLOGIC DISEASES (diagnosis); HUMAN; MALE; MIDDLE AGE; MONOGRAPH (mortality); SWEDEN; URETHRITIS (etiology); URINARY TRACT INFECTIONS (diagnosis); URINE (analysis).

#### Fryczkowski M

**[RESULTS OF SURGICAL TREATMENT OF UROLITHIASIS IN DIABETICS]** Fryczkowski M, Skop B *Wiad Lek* 29: 1073-7, 15 Jun 76 (Pol) DL/76NOV272

ADULT; AGED; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; KIDNEY CALCULI (complications, surgery); MALE; MIDDLE AGE; POSTOPERATIVE CARE; PREOPERATIVE CARE.

#### Frye FL

**SPONTANEOUS DIABETES MELLITUS IN A TURTLE.** Frye FL, Dutra FR, Carney JD, Johnson B *Vet Med Small Anim Clin* 71: 935-9, Jul 76 (Eng) DL/76NOV267

ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (veterinary); MALE; TURTLES.

#### Fuchs U

**THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS.** Emrich P, Fuchs U, Heinke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

#### Fujii N

**STUDIES ON PEPTIDES. LVI. SYNTHESIS OF N1-TYR-SOMATOSTATIN.** Fujii N, Yajima H *Chem Pharm Bull (Tokyo)* 23: 2446-9, Oct 75 (Eng) \*DL/76NOV456

METHODS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analogs & derivatives, chemical synthesis); TYROSINE (analogs & derivatives).

#### Fukushima N

**[ROLE OF BRAIN BIOGENIC AMINES IN THE CENTRAL THERMOREGULATORY**

#### MECHANISM OF THE RAT (AUTHORS TRANSL.)

Fukushima N *Hokkaido J Med Sci* 50: 369-85, Jul 75 (Jpn) \*DL/76NOV497

ADAPTATION; PHYSIOLOGICAL (drug effects); ANIMAL EXPERIMENTS; BIOGENIC AMINES (physiology); BLOOD SUGAR (metabolism); BODY TEMPERATURE REGULATION (drug effects); CEREBRAL VENTRICLES; DOPAMINE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP; DRUG; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HALOPERIDOL (pharmacodynamics); HYDROXYDOPAMINE (pharmacodynamics); HYPOTHERMIA (chemically induced); IMIPRAMINE (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); LEVODOPA (pharmacodynamics); MALE; NOREPINEPHRINE (pharmacodynamics); OXYGEN CONSUMPTION (drug effects); PHENOXYBENZAMINE (pharmacodynamics); PHENYLEPHRINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; RECTUM; SEROTONIN (pharmacodynamics); SKIN TEMPERATURE (drug effects).

#### Fung CH

**MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE.** Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

BINDING SITES; BIOTIN; COENZYME A; ELECTRON SPIN RESONANCE; KINETICS; MACROMOLEULAR SYSTEMS; MATHEMATICS; METALLOPROTEINS; MOLECULAR CONFORMATION; MOLECULAR MODELS; MOLECULAR WEIGHT; NUCLEAR MAGNETIC RESONANCE; PROPIONATES; PROPIONIBACTERIUM (enzymology); PROTEIN BINDING; PROTEIN CONFORMATION; PYRUVATES; TRANSFERASES; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

#### Gabrielli F

**GLUCONEOGENESIS: A TEACHING PATHWAY. CRITERIA TO ESTABLISH A METABOLIC PATHWAY.** Gabrielli F *J Chem Educ* 53: 86-91, Feb 76 (Eng) \*DL/76NOV522

BIOCHEMISTRY (education); GLUCONEOGENESIS.

#### Gainutdinov MKh

**[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> & ION TRANSPORT IN LIVER MITOCHONDRIA]** Gainutdinov MKh, Salikhov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

#### Galakhova IE

**[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS]** Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

#### Gall DG

**SODIUM ION TRANSPORT IN ISOLATED INTESTINAL EPITHELIAL CELLS. II. COMPARISON OF THE EFFECT OF ACTIVELY TRANSPORTED SUGARS ON SODIUM ION EFFLUX IN CELLS ISOLATED FROM JEJUNUM AND ILEUM.** Gall DG, Chapman D *Biochim Biophys Acta* 419: 314-9, 21 Jan 76 (Eng) \*DL/76NOV426

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; EPITHELIAL CELLS (metabolism, drug effects); FRUCTOSE (pharmacodynamics); GALACTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); HEXOSES (pharmacodynamics); ILEUM (metabolism, drug effects); IN VITRO; JEJUNUM (metabolism, drug effects); MANNITOL (pharmacodynamics); RABBITS; RATS; SODIUM (metabolism).

#### Galli M

**[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIocalcium]** Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

#### Gan AC

**METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS.** Avram MM, Lipner HI, Sadigali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

#### Garas Z

**[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA]** Berces G, Garas Z *Orv Hetil* 117: 1753-6, 18 Jul 76 (Hun) DL/76NOV199

#### Garaud JC

**UNUSUAL SPECIFICITIES OF ANTIBODIES TO**

F GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garaud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

ANIMAL EXPERIMENTS (analysis); ANTIGEN-ANTIBODY REACTIONS; BINDING SITES; GLUCAGON (immunology); GLUTARALDEHYDE; HUMAN; PROTEIN BINDING; RABBITS (immunology); SERUM ALBUMIN.

#### Garcia De Pesquera F

**[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL.)]** Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *Ann Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

#### Garcia-Villar R

**INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP.** Weekes TE, Bueno L, Garcia-Villar R *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

#### Gardner JD

**INTERACTION OF PORCINE VASOACTIVE INTESTINAL PEPTIDE WITH DISPERSED PANCREATIC ACINAR CELLS FROM THE GUINEA PIG. BINDING OF RADIOIODINATED PEPTIDE.** Christophe JP, Conlon TP, Gardner JD *J Biol Chem* 251: 4629-34, 10 Aug 76 (Eng) DL/76NOV87

#### Gardner LB

**RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON.** Gardner LB, Spannhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); EPIDIDYMIS; GLUCAGON (pharmacodynamics); GLYCERIN (blood); INSULIN (blood); LIVER (anatomy & physiology, metabolism); MALE; ORGAN WEIGHT; RATS; SPECIES SPECIFICITY.

## Diabetes Literature—Author Index

Gerich JE

### Gardos G

**MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS.** PP. 167-80. Gardos G, Szasz I, Sarkadi B *In 0 Gardos G, Szasz I, ed. Biomembranes: structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng)* \*DL/76NOV403

**BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (pharmacodynamics); CELL MEMBRANE (metabolism, drug effects); ERYTHROCYTES (metabolism, drug effects); EGTA (pharmacodynamics); HUMAN; KINETICS; MONOGRAPH; POTASSIUM (blood); PROPRANOLOL (pharmacodynamics).**

### Garlick PJ

**THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS.** Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

### Gartside PS

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR; FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMaturity.** Kashyap ML, Sivasambaran R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

### Gasanov GG

**[EFFECT OF SODIUM SELENITE ON THE RATE OF GLYCOLYSIS UNDER AN INTENSIVE MUSCULAR LOAD]** PP. 94-5. Karaeva MA, Gasanov GG *In 0 Gasanov GG, ed. Selen v biologii. Baku, 1974. QV 618 S464 1974. (Rus)* \*DL/76NOV384

### Gasinska T

**[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL]** Gasinska T, Gburek Z *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

**ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); DIABETES MELLITUS (blood); ENGLISH ABSTRACT; ERYTHROCYTES (analysis); FEMALE; HUMAN; MALE; MIDDLE AGE; POTASSIUM (analysis); SODIUM (analysis).**

### Gatt JA

**SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA.** PP. 248-59. Carruthers ME, Taggart P, Salpekar PD, Gatt JA *In 0 Schweizer W, ed. Beta-blockers—present status and future prospects. Bern, Huber, 1974. QV 132 B362 1974. (Eng)* \*DL/76NOV640

### Gatti RA

**LETTER: DIABETES MELLITUS, CHROMOSOMAL ABERRATION, AND MALIGNANCY.** Shaw JF, Kansal PC, Gatti RA *Lancet* 2: 315, 7 Aug 76 (Eng) DL/76NOV166

### Gauger JA

**ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT.** Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

### Gautvik KM

**MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE.** Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

**CELL LINE; CROSS REACTIONS; KINETICS; LEUCINE (metabolism); PITUITARY GLAND (metabolism, cytology); PRECIPITIN TESTS; PROLACTIN (biosynthesis, secretion, immunology); PROTEINS (biosynthesis); RATS; SOMATOTROPIN (secretion, immunology).**

**EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS.** Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

**CELL ADHESION (drug effects); CELL LINE; DOSE-RESPONSE RELATIONSHIP, DRUG; PITUITARY GLAND (metabolism, cytology); PROLACTIN (biosynthesis, secretion); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); PROTEINS (biosynthesis); RATS; SOMATOTROPIN (biosynthesis, secretion); STIMULATION, CHEMICAL; THYROTROPIN RELEASING HORMONE (pharmacodynamics).**

### Gavrila F

**[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCTION]** Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russi G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

### Gburek Z

**[ERYTHROCYTE SODIUM AND POTASSIUM CONCENTRATIONS AND THE DEGREE OF DIABETES CONTROL]** Gasinska T, Gburek Z *Pol Tyg Lek* 31: 1145-7, 5 Jul 76 (Pol) DL/76NOV212

### Geck P

**ENERGETIC COUPLING OF AMINO ACID TRANSPORT.** PP. 107-15. Heinz E, Pietrzik C, Geck P, Pfeiffer B *In 0 Gardos G, Szasz I, ed. Biomembranes: structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng)* \*DL/76NOV392

### Gelin LE

**[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION]** Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O *Lakaridningen* 73: 2345-8, 21 Jul 76 (Swe) DL/76NOV164

**TRANSPLANTATION OF DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT.** Brynger H, Blomme G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

### Genin MS

**[IDENTIFICATION OF THE INHIBITION TYPE OF HEXOKINASE AND PYRUVATE KINASE ACTIVITY BY CA2+]** Genin MS, Andreve VS *Biochimica* 40: 885-9, Jul-Aug 75 (Rus) \*DL/76NOV644

**CALCIUM (pharmacodynamics, physiology); ENGLISH ABSTRACT; ENZYME ACTIVATION; GLYCOLYSIS; HEXOKINASE (antagonists & inhibitors); KINETICS; MAGNESIUM (pharmacodynamics); PYRUVATE KINASE (antagonists & inhibitors).**

### Gennari C

**[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOCALCIUM]** Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

### Genne H

**EFFECTION OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genne H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) DL/76NOV286

### Gentil M

**EFFECT OF FASTING ON GLUCOSE RECYCLING IN RATS.** Freminet A, Poyart C, Leclerc L, Gentil M *FEBS Lett* 61: 294-7, 15 Jan 76 (Eng) \*DL/76NOV487

### George J

**LETTER: FIBRINOLYTIC ACTIVITY IN TREATMENT OF DIABETES.** Bogie W, George J, Crane CW *Lancet* 2: 312, 7 Aug 76 (Eng) DL/76NOV165

### George JC

**INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL.** Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

### Gerard A

**[GLUCOSE AND THE REDUCING SUGARS OF THE HUMAN BILE]** Paris J, Salembier Y, Gerard A, Samso G *Med Chir Dig suppl 1: 31-4, 1975 (Fre)* DL/76NOV162

### Gerasimova EN

**[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS]** Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldeava AP, Galakhova IE *Vopr Med Klin* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

### Gerich JE

**SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE.** Deftos LJ, Lorenzi M, Bohanon N, Tsakalakian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsakalakian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**ADULT; ALANINE (blood); BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); DEPRESSION, CHEMICAL; DIABETES MELLITUS (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (pharmacodynamics, physiology); GLYCERIN (blood); HUMAN; HYDROXYBUTYRATES (blood); KETOSIS, DIABETIC (metabolism); LIPLIDS (metabolism); MALE; SOMATOTROPIN RELEASE; INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (pharmacodynamics, physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

**SOMATOSTATIN AND THE ENDOCRINE PAN-CREAS.** PP. 127-43. Gerich JE *In 0 Labrie F, et al., ed. Hypothalamus and endocrine functions. New York, Plenum Press, 1976. WI CU82M v.3* 1976. (Eng) [55] DL/76NOV127

**ADENOMA (metabolism); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CASE REPORT; DIABETES MELLITUS (blood); GLUCAGON (secretion); HUMAN; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); MONOGRAPH (mortality); PANCREATIC NEOPLASMS (metabolism); PERFUSION; RATS; REVIEW; SOMATOTROPIN (pharmacodynamics); INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

## Diabetes Literature—Author Index

### Gerrard JM

#### Gerrard JM

**LABILE AGGREGATION STIMULATING SUBSTANCE, FREE FATTY ACIDS, AND PLATELET AGGREGATION.** Gerrard JM, White JG, Krivit W *J Lab Clin Med* 87: 73-82, Jan 76 (Eng) \*DL/76NOV660

**ARACHIDONIC ACIDS (pharmacodynamics); BLOOD PLATELETS (ultrastructure); EICOSANOATES (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (pharmacodynamics); FATTY ACIDS, UNSATURATED (pharmacodynamics); HUMAN; LINOLEIC ACIDS (pharmacodynamics); LINOLENIC ACIDS (pharmacodynamics); MICROSONES; OLEIC ACIDS (pharmacodynamics); PALMITIC ACIDS (pharmacodynamics); PLATELET AGGREGATION (drug effects); STEARIC ACIDS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

#### Gessa GL

**POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN.** Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

#### Ghanbari H

**INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE.** Ghanbari H, McCarl RL *J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

**ACETYLCHOLINE (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); CELLS, CULTURED; DIBUTYRYL CYCLIC AMP (metabolism); DICHLOROISOPROTERENOL (pharmacodynamics); GLUCAGON (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); HYDROCORTISONE (pharmacodynamics); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (cytology, metabolism); RATS; THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .**

#### Ghirlanda G

**[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS]** Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

#### Gilbue DD

**THE CHARACTERISTICS OF GLUCOSE TRANSPORT ACROSS THE BLOOD BRAIN BARRIER AND ITS RELATION TO CEREBRAL GLUCOSE METABOLISM.** Betz AL, Gilbue DD, Drewes LR *Adv Exp Med Biol* 69: 133-49, 1976 (Eng) [52] DL/76NOV299

#### Gill TS

**EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH).** Gill TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV291

**ANIMAL EXPERIMENTS (analysis); FEMALE; FISHES; GLUCAGON (administration & dosage, pharmacodynamics, secretion); INJECTIONS, INTRAMUSCULAR; ISLANDS OF LANGERHANS (cytology, drug effects); MALE.**

#### Giodano G

**GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN.** Giodano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604

**AGE FACTORS; FEMALE; FETAL BLOOD; HUMAN; INFANT, NEWBORN; MALE; SOMATOMEDIN (blood); SOMATOTROPIN (blood).**

### Giraldi B

**[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS]** Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

### Giron B

**[IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lévy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

### Gizatullina ZZ

**[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> & ION TRANSPORT IN LIVER MITOCHONDRIA]** Turakulov Iak, Gainutdinov MKh, Salikhov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

### Gizatullina ZZ

**[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES]** Glantsev RN, Skovronskaya EV, Vovk GP, Mikolishin LI *Biull Eksp Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

**ALLOXAN DIABETES (metabolism); ANABOLIC STEROIDS (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ASCORBIC ACID (pharmacodynamics); CASEIN (metabolism); ENGLISH ABSTRACT; INSULIN (pharmacodynamics); METABOLISM (drug effects); PARENTERAL FEEDING; PROTEIN HYDROLYSATES (metabolism); RATS; VITAMIN B COMPLEX (pharmacodynamics).**

### Glanzmann C

**[EXHALATION DIAGNOSIS WITH C<sub>14</sub> TAGGED COMPOUNDS, METHODS AND RESULTS]** Lutolf UM, Glanzmann C, Renk IW, Horst W *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

### Gloster J

**[TRANSFER OF [1-14C] PALMITATE BETWEEN MYOCARDIAL CELL FRAC-**

**TIONS]** Fields M, Gloster J, Harris P *J Mol Cell Cardiol* 7: 907-16, Dec 75 (Eng) \*DL/76NOV664

### Gnudi A

**[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]** Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

### Godel E

**THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS.** Emmerich P, Fuchs U, Heinke P, Jutzi E, Godel E *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

### Goetz F

**HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY.** Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

### Gogler H

**EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLORPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION.** Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

### Gold G

**[RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE]** Gold G, Widnell CC *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) \*DL/76NOV514

**ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; BOROHYDRIDES (pharmacodynamics); EDTA (metabolism); GLUCOSEPHOSPHATASE (metabolism); KINETICS; MALE; MICROSOMES, LIVER (metabolism, enzymology, drug effects); MODELS, BIOLOGICAL; PERMEABILITY; PYRIDOXAL PHOSPHATE (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Goldberg MF

**[EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC]** Apple DJ, Wyhama GJ, Goldberg MF, Polley EH *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

### Goldberg TH

**[INITIAL EVALUATION OF THE PATIENT IN COMA OR SHOCK. PP. II-8]** Goldberg TH *In0 Findius JC, ed. Emergency management of the critical patient.* New York, Stratton, 1975. W1 EM662H v2 1975. (Eng) DL/76NOV118

**ANIMAL EXPERIMENTS (analysis); CENTRAL NERVOUS SYSTEM DISEASES (diagnosis); COMA (diagnosis, etiology, therapy); DIAGNOSIS, DIFFERENTIAL; DRUG ABUSE; HEMORRHAGE (diagnosis); HYPOGLYCEMIA (diagnosis); INSULIN COMA (diagnosis); MONOGRAPH (mortality); PHYSICAL EXAMINATION; RESPIRATORY INSUFFICIENCY (diagnosis); SHOCK (diagnosis, therapy).**

### Goldfien A

**SOME PHYSIOLOGICAL AND BIOCHEMICAL MEASUREMENTS OVER THE MENSTRUAL CYCLE.** PP. 259-75. Freedman SH, Ramcharan S, Hoag E, Goldfien A *In0 Ferin M et al., ed. Biorhythms and human reproduction.* New York, Wiley, 1974. QT 167 B616 1972. (Eng) \*DL/76NOV413

### Goldman JK

**ORIGIN OF ENDOCRINE-METABOLIC CHANGES IN THE WEANLING RAT VENTROMEDIAL SYNDROME.** Bernardis LL, Goldman JK *J Neurosci Res* 2: 91-116, 1976 (Eng) DL/76NOV145

### Goldman RA

**ANAPHYLACTOID REACTION TO SINGLE-COMPONENT PORK INSULIN.** Goldman RA, Lewis AE, Rose LI *JAMA* 236: 1148-9, 6 Sep 76 (Eng) DL/76NOV146

### ANAPHYLAXIS (etiology); ANTIGENIC

**DETERMINANTS; CASE REPORT; CATTLE; DESENSITIZATION; FEMALE; HUMAN; INSULIN (administration & dosage, immunology); MIDDLE AGE; SWINE.**

### Golstein J

**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copisch G, Leclercq-Meyer V, Virasoro E, Lhermitte M, Vanhaest L, Golstein J, Leclercq R, Fery P, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

**PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION.** Vanhaest L, Degaute JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV501

### Gomez-Arnau JI

**[URINARY INFECTION AND DIABETES MELLITUS. CLINICAL ASPECTS, TREATMENT**

## Diabetes Literature—Author Index

Grenier JF

**AND COMPLICATIONS. CONCLUSIONS**  
Gomez-Arnau JI, Rojas-Hidalgo E *Rev Clin Esp* 141: 441-8, 15 Jun 76 (Spa) \*DL/76NOV229

**DIABETES MELLITUS (complications); ENGLISH ABSTRACT; HUMAN; URINARY TRACT INFECTIONS (etiology).**

**Gommers A**

**EFFECT OF AGEING ON INSULIN AND INSULIN-GLUCOSE SENSITIVITY TESTS IN RATS.** Gommers A, Genne H *Acta Diabetol Lat* 12: 303-8, Sep-Dec 75 (Eng) \*DL/76NOV286

**ADIPOSE TISSUE (metabolism); AGE FACTORS; AGING; ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR; FASTING; GLUCONEOGENESIS; GLUCOSE TOLERANCE TEST; INSULIN (administration & dosage, diagnostic use); LIVER GLYCOGEN (metabolism); MALE; RATS.**

**Goncalves L**

**HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION.** Machado MC, Monteiro da Cunha JE, Marigardo NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) \*DL/76NOV81

**Gospodarowicz D**

**EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS.** Gospodarowicz D, Weseman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) \*DL/76NOV90

**ACETYLCHOLINE; BLOOD; BUNGAROTOXINS (metabolism); CATTLE; CELL DIVISION (drug effects); CELL FUSION (drug effects); CELLS, CULTURED; CHICK EMBRYO; DNA (biosynthesis); FIBROBLASTS; GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); KINETICS; MUSCLES (cytology, metabolism); RECEPTORS; CHOLINERGIC; THYMIDINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

**Gossain VV**

**PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM.** Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, Jul 76 (Eng) \*DL/76NOV175

**Goto Y**

**POTENTIATION BY THEOPHYLLINE OF ARGinine-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS.** Goto Y, Seino Y, Tamimoto T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) \*DL/76NOV76

**ANIMAL EXPERIMENTS (analysis); ARGinine (pharmacodynamics); GLUCAGON (secretion); MALE; PANCREAS (drug effects, secretion); PERfusion; RATS; THEOPHYLLINE (pharmacodynamics); TIME FACTORS.**

**PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING.** Goto Y, Kakizaki M, Masaki N *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) \*DL/76NOV258

**ANIMAL EXPERIMENTS (analysis); BREEDING; DIABETES MELLITUS (blood, familial & genetic); FEMALE; GLUCOSE TOLERANCE TEST; MALE; RATS.**

**NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS.** Goto Y, Toyota T, Masuda M, Komatsu K, Kurihara A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) \*DL/76NOV260

**ABSENTEEISM; ACTIVITIES OF DAILY LIVING; ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; CHILD, PRESCHOOL; CORONARY DISEASE (etiology); DIABETES MELLITUS (complications);**

**DIABETIC ANGIOPATHIES; DIABETIC RETINOPATHY (etiology); ELECTROCARDIOGRAPHY; FEMALE; HUMAN; HYPERGLYCEMIA (etiology); INFANT; INFANT, NEWBORN; MALE; MIDDLE AGE; PROGNOSIS; SEASONS; SEX RATIO.**

**Goudoux L**

**[THE PATHWAYS OF GLUCOSE CATABOLISM IN TENEBRIOS MOLITOR: THE EFFECTS OF FASTING AND THE INJECTION OF THE CORPUS CARDIACUM-CORPUS ALLATUM COMPLEX.]** Goudoux L, C R *Soc Biol (Paris)* 169: 941-5, 1975 (Fre) \*DL/76NOV453

**ANIMAL EXPERIMENTS; ENGLISH ABSTRACT; FASTING; GLUCOSE (metabolism); GLYCOLYSIS (drug effects); INSECT HORMONES (pharmacodynamics); INVERTEBRATE HORMONES (pharmacodynamics); PENTOSES (metabolism); TENEBRIOS (metabolism, drug effects).**

**Graeber GM**

**PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY.** Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) \*DL/76NOV338

**ACIDOSIS (chemically induced, drug therapy); AGED; ALKALOSIS (etiology); BICARBONATES (therapeutic use); CASE REPORT; DIABETES MELLITUS (drug therapy); FEMALE; HUMAN; LACTATES (blood, metabolism); MALE; PANCREATITIS (chemically induced); PHENFORMIN (adverse effects, therapeutic use); PYRUVATES (blood).**

**Gragnoli G**

**[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOsis]** Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) \*DL/76NOV2

**Grand RJ**

**EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99mTC PERTECHNETATE IN MICE.** Ketterley J, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) \*DL/76NOV227

**Grant DB**

**24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS.** Levinsky RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) \*DL/76NOV331

**Grant ME**

**PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES.** Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) \*DL/76NOV141

**ANIMAL EXPERIMENTS (analysis); COLLAGEN (biosynthesis); DIABETES MELLITUS (chemically induced, enzymology); KIDNEY GLOMERULUS (enzymology); RATS; STREPTOZOTOCIN.**

**Gray BN**

**ISOLATED ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES.** Gray BN, Watkins E Jr *Aust J Exp Biol Med Sci* 54: 57-70, Feb 76 (Eng) \*DL/76NOV350

**ANIMAL EXPERIMENTS (analysis); ANTI-LYMPHOCYTE SERUM (administration & dosage); DIABETES MELLITUS (surgery); DIABETIC NEPHROPATHIES (prevention & control); DIABETIC RETINOPATHY (prevention & control); GRAFT REJECTION (prevention & control); ISLANDS OF LANGERHANS (transplantation); LEUKOCYTE CULTURE TEST, MIXED; LYMPHOCYTES (immunology); MALE; PORTAL VEIN; RATS; RATS, INBRED F344; RATS, INBRED LEW; SKIN (transplantation); TRANSPLANTATION, ALLOGENEIC; TRANSPLANTATION, ISOGENEIC.**

**& control); GRAFT REJECTION (prevention & control); ISLANDS OF LANGERHANS (transplantation); LEUKOCYTE CULTURE TEST, MIXED; LYMPHOCYTES (immunology); MALE; PORTAL VEIN; RATS; RATS, INBRED F344; RATS, INBRED LEW; SKIN (transplantation); TRANSPLANTATION, ALLOGENEIC; TRANSPLANTATION, ISOGENEIC.**

**Greco AV**

**[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOsis]** Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) \*DL/76NOV188

**ADULT; ANTIGENS; BLOOD SUGAR; ENGLISH ABSTRACT; FATTY ACIDS; NONESTERIFIED (blood); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIVER CIRRHOsis (blood, diagnosis); MALE; MIDDLE AGE; SOMATOTROPIN (blood).**

**Green H**

**TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE.** Green H, Bishop P, Houston M, McKillop R, Norman R, Stothart P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

**ADULT; BLOOD PROTEINS; BLOOD SUGAR; COMPARATIVE STUDY; HEART RATE; HEMATOCRIT; HOCKEY; HUMAN; LACTATES (blood); MALE; SPORT MEDICINE; SPORTS; TIME FACTORS.**

**Green IC**

**INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE.** Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) \*DL/76NOV68

**Greenawalt JW**

**BIOGENESIS OF MITOCHONDRIAL MEMBRANES IN NEUROSPORA CRASSA DURING CELLULAR DIFFERENTIATION: CHANGES IN OXIDATIVE PHOSPHORYLATION AND SYNTHESIS OF MITOCHONDRIAL PHOSPHOLIPIDS.** Beck DP, Greenawalt JW *J Gen Microbiol* 92: 111-9, Jan 76 (Eng) \*DL/76NOV662

**Greenberg GR**

**METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE.** Jeejeebhoy KN, Anderson GH, Nakhoda AF, Greenberg GR, Sanderson I, Marlis EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

**Greenberg MM**

**AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN VIEABLE YELLOW OBESIVE MICE (AVY/A).** Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) \*DL/76NOV67

**Gregg RO**

**PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY.** Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) \*DL/76NOV338

**Grenier JF**

**UNUSUAL SPECIFICITIES OF ANTIBODIES TO GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES.** Garaud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) \*DL/76NOV77

## Diabetes Literature—Author Index

### Griffiths DE

#### Griffiths DE

THE ROLE OF LIPID IN REGULATION OF MITOCHONDRIAL ADENOSINE TRIPHOSPHATASE. Bertoli E, Finean JB, Griffiths DE *FEBS Lett* 61: 163-5, 15 Jan 76 (Eng) \*DL/76NOV485

#### Grill V

EFFECT OF HEXOSES AND MANNOHEPTULOSE ON CYCLIC AMP ACCUMULATION AND INSULIN SECRETION IN RAT PANCREATIC ISLETS. Grill V, Cerasi E *Biochim Biophys Acta* 437: 36-50, 23 Jun 76 (Eng) DL/76NOV9

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); FRUCTOSE (pharmacodynamics); GALACTOSE (pharmacodynamics); GLUCOSAMINE (pharmacodynamics); GLUCOSE (pharmacodynamics); HEPTOSES (pharmacodynamics); HEXOSES (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); KINETICS; MALE; MANNOHEPTULOSE (pharmacodynamics); MANNOSE (pharmacodynamics); METHYLGUCOSIDES (pharmacodynamics); RATS.

#### Gronwall R

GLUCOSE UTILIZATION AND RECYCLING IN PONIES. Anwer MS, Chapman TE, Gronwall R *Am J Physiol* 230: 138-42, Jan 76 (Eng) \*DL/76NOV623

#### Groth CG

PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arnep P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

#### Gudbjarnason S

THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS. Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

ADENOSINE TRIPHOSPHATE (metabolism); AGE FACTORS; ANIMAL EXPERIMENTS; ARACHIDONIC ACIDS (metabolism); DIETARY FATS; ENERGY METABOLISM; FATTY ACIDS (analysis); FEMALE; HUMAN; ISOPROTERENOL (pharmacodynamics); LIPIDS (metabolism, analysis); MALE; MEMBRANES (metabolism); MYOCARDIAL INFARCT (metabolism); MYOCARDIUM (metabolism, pathology); NECROSIS; PHOSPHOCREATINE (metabolism); RATS; SEX FACTORS.

#### Guidon J

[INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APPROPOS OF 2 CASES)] Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

#### Guinovart JJ

[A STUDY OF THE O-TOLUIDINE METHOD FOR GLYCOGEN MEASUREMENT (AUTHORS TRANSL)] Guinovart JJ, Rosell-Perez M *Rev Esp Fisiol* 31: 317-22, Dec 75 (Spa) \*DL/76NOV573

ENGLISH ABSTRACT: GLYCOGEN (analysis); METHODS; TISSUE EXTRACTS (analysis); TOLUIDINES (pharmacodynamics).

#### Gupta RK

MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE. Fung CH, Gupta RK,

Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

#### Guseva NP

[CONCOMITANT DISEASES IN MACROFOCAL MYOCARDIAL INFARCT] Danish Gla, Guseva NP *Vrach Delo* 72-6, Dec 75 (Rus) DL/76NOV269

#### Gustafsson A

TRANSPLANTATION OF A DUCT-LIGATED PANCREATIC ALLOGRAFT TO A DIABETIC PATIENT. Brynger H, Blomhe G, Claes G, Gustafsson A, Gelin LE *Scand J Urol Nephrol* 59-62, 6-7 Mar 75 (Eng) DL/76NOV241

#### Gutfreund H

PIG HEART LACTATE DEHYDROGENASE. BINDING OF PYRUVATE AND THE INTERCONVERSION OF PYRUVATE-CONTAINING TERNARY COMPLEXES. Boland MJ, Gutfreund H *Biochem J* 151: 715-27, Dec 75 (Eng) \*DL/76NOV637

#### Guth PH

THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION. Guth PH, Smith E *Gastroenterology* 71: 435-8, Sep 76 (Eng) DL/76NOV61

ANIMAL EXPERIMENTS (analysis); ARTERIES (drug effects); CATS; DOSE-RESPONSE RELATIONSHIP; DRUG; DRUG ADMINISTRATION SCHEDULE; GASTRIC MUCOSA (blood supply); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (pharmacodynamics); HISTAMINE (pharmacodynamics); MICROcirculation (drug effects); PENTAGASTRIN (pharmacodynamics); PYLORIC ANTRUM (blood supply); SECRETIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VASCULAR RESISTANCE (drug effects); VASOMOTOR SYSTEM (drug effects).

#### Guzman MA

DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS. Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

#### Haarasita S

EFFECT OF AERATION ON THE ACTIVITY OF GLUCONEOGENETIC ENZYMES IN SACCHAROMYCES CEREVIAE GROWING UNDER GLUCOSE LIMITATION. Haarasita S, Oura E *Arch Microbiol* 106: 271-3, 31 Dec 75 (Eng) \*DL/76NOV630

AEROBIOSES; ANAEROBIOSES; ENZYME REPRESSION; GLUCONEOGENESIS; GLUCOSE (metabolism, pharmacodynamics); HEXOSIDIPHOSPHATASE (biosynthesis); ISOCITRATES; KETOACID-LYASES (biosynthesis); PHOSPHOENOLPYRUVATE CARBOXYKINASE (biosynthesis); PYRUVATE CARBOXYLASE (biosynthesis); SACCHAROMYCES CEREVIAE (enzymology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

#### Haefner EW

FATTY ACID SYNTHESIS FROM 2,4-CACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO. Haefner EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

ACETATES (metabolism); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; COENZYME A (pharmacodynamics); CYTOSOL (metabolism, drug effects); FATTY ACIDS (biosynthesis); LIPIDS (biosynthesis); MAGNESIUM

(pharmacodynamics); MALE; MITOCHONDRIA (metabolism, drug effects); NADP (pharmacodynamics); PHILIPPINES; RATS; TESTIS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

#### Hagenfeldt K

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennmalm A *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

#### Hagenfeldt L

EFFECT OF PROTEIN INGESTION ON SPLANCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS. Wahren J, Felig P, Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennmalm A *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

ADULT; ARACHIDONIC ACIDS (blood); ARTERIES (metabolism); FATTY ACIDS; NONESTERIFIED (blood); FEMALE; HUMAN; MALE; OLEIC ACIDS (blood); SEX FACTORS.

#### Hagstrom BE

TERATOGENIC EFFECT OF TOLBUTAMIDE ON THE DEVELOPMENT OF THE SEA URCHIN EMBRYO (PARACENTROTUS LIVIDUS LAMARCK). Hagstrom BE, Lonnberg S *Experientia* 32: 744-6, 15 Jun 76 (Eng) DL/76NOV56

ANIMAL EXPERIMENTS (analysis); EMBRYO (drug effects); FEMALE; FERTILIZATION (drug effects); LARVA (drug effects, ultrastructure); MALE; MITOSIS (drug effects); SEA URCHINS; SPERMATOZOA (drug effects); TOLBUTAMIDE (pharmacodynamics).

#### Hallgrímsson J

THE ROLE OF MYOCARDIAL MEMBRANE LIPIDS IN THE DEVELOPMENT OF CARDIAC NECROSIS. Gudbjarnason S, Hallgrímsson J *Acta Med Scand [Suppl]* 17-27, 1976 (Eng) \*DL/76NOV612

#### Halse K

GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS. Blom AK, Halse K, Hove K *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CATTLE (blood, physiology); FEMALE; INSULIN (blood); LACTATION; PREGNANCY; SOMATOTROPIN (blood); TIME FACTORS.

#### Hamby RI

REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE. Hamby RI, Sherman L, Mehta J, Aintablian A *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

ADULT; AGE FACTORS; AGED; CHOLESTEROL (blood); CORONARY DISEASE (complications); CORONARY VESSELS (radiography); DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERLIPEMIA (complications); HYPERTENSION (complications); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

## Diabetes Literature—Author Index

Hayashi S

### Hameit P

**CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION.** Lowder SC, Hameit P, Liddle GW. *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV646

### Hamm TE

**ATHEROSCLEROSIS IN OLD WORLD MONKEYS.** Clarkson TB, Hamm TE, Bullock BC, Lehner ND. *Primates Med* 9: 66-89, 1976 (Eng) \*DL/76NOV676

### Hamosh M

**LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE.** Hamosh M, Yeager M Jr, Shechter Y, Hamosh P. *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

ANIMAL EXPERIMENTS (analysis); CASTRATION; DEXAMETHASONE (pharmacodynamics); DIABETES MELLITUS (chemically induced, enzymology); ESTRADIOL (pharmacodynamics); FEMALE; HEPARIN (pharmacodynamics); LIPOPROTEIN LIPASE (metabolism); LUNG (drug effects, enzymology); MALE; PROGESTERONE (pharmacodynamics); RATS; STREPTOZOTOCIN; THYROID (pharmacodynamics).

### Hamosh P

**LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE.** Hamosh M, Yeager M Jr, Shechter Y, Hamosh P. *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

### Hampton JR

**CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS.** Bennett T, Hosking DJ, Hampton JR. *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

### Hankiewicz J

**INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS** Hankiewicz J, Scieszkowa M. *Wiad Lek* 29: 1311-5, 15 Jul 76 (Pol) DL/76NOV273

ACCIDENTS, TRAFFIC; AUTOMOBILE DRIVING; CEREBRAL ANOXIA (complications); CORONARY DISEASE (complications); HUMAN; HYPOGLYCEMIA (complications); SYNCOP (complications).

### Hardeman MR

**SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA.** Hardeman MR, Prins H. *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

BIOLOGICAL TRANSPORT; BLOOD PLATELETS (metabolism); BLOOD SUGAR (metabolism); GLYCOLYSIS; HUMAN; LACTATES (blood); SEROTONIN (blood); TIME FACTORS.

### Hardstedt C

**PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES.** Lundgren G, Arne P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J. *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

### Hare JW

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Hare JW. *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

### Harken AH

**HYDROGEN ION CONCENTRATION AND OXYGEN UPTAKE IN AN ISOLATED CANINE HINDLIMB.** Harken AH. *J Appl Physiol* 40: 1-5, Jan 76 (Eng) \*DL/76NOV508

ANIMAL EXPERIMENTS; BLOOD SUGAR; BODY TEMPERATURE; CARBON DIOXIDE; DOGS; HINDLIMB (metabolism); LACTATES (metabolism); MUSCLES (metabolism); OXYGEN CONSUMPTION; PHILIPPINES; PYRUVATES (metabolism).

### Harley JD

**IN VITRO METABOLISM OF RED BLOOD CELLS FROM NEWBORN AND ADULT GOATS.** Agar NS, Harley JD. *Biol Neonate* 28: 113-7, 1976 (Eng) \*DL/76NOV444

### Harris P

**TRANSFER OF [<sup>14</sup>C] PALMITATE BETWEEN MYOCARDIAL CELL FRACTIONS.** Fields M, Gloster J, Harris P. *J Mol Cell Cardiol* 7: 907-16, Dec 75 (Eng) \*DL/76NOV664

### Harris SH

**SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY.** Cederbaum SD, Blass JP, Minkoff N, Brown WJ, Cotton ME, Harris SH. *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203

### Harrison MH

**EFFECTS OF ACUTE HEAT STRESS ON TISSUE CARBOHYDRATE IN FASTED RATS.** Harrison MH. *Aviat Space Environ Med* 47: 165-7, Feb 76 (Eng) \*DL/76NOV636

ADRENAL MEDULLA (physiology); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); FASTING; GLYCOGEN (metabolism); HEAT (adverse effects); LACTATES (blood); LIVER GLYCOGEN (metabolism); LIVER (metabolism); OXYGEN CONSUMPTION; RATS; STRESS.

### Hartley MW

**ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS.** Diethelm AG, Sterling WA, Hartley MW, Morgan JM. *Arch Surg* 111: 687-70, Aug 76 (Eng) DL/76NOV337

### Hartmannova B

**SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS.** Sladek T, Filkula J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbaneck E, Vasku J, Bednarik B. *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

### Hartog M

**LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMAL BREAD.** Heaton KW, Manning AP, Hartog M. *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

### Harvey TC

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM. *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

### Harwood R

**PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES.** Grant ME, Harwood R, Williams IF

*J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) DL/76NOV141

### Hashimoto P

**EVALUATION OF A DISCRETE-SAMPLE COMPUTER-DIRECTED CLINICAL ANALYZER.** Forrester RL, Collinge W, Hashimoto P, Worrall J. *J Clin Chem* 22: 211-6, Feb 76 (Eng) \*DL/76NOV458

### Haskell WL

**EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN.** Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB. *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

### Hasselblatt A

**THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT.** Lenzen S, Joost HG, Hasselblatt A. *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

### Hata S

**ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION.** Hata S, Kunita H, Okamoto M. *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

ADULT; ALDOSTERONE (metabolism); ANGIOTENSIN (blood); CORTICOTROPIN (physiology); DEPRESSION, CHEMICAL; HUMAN; HYDROCORTISONE (blood); HYPOGLYCEMIA (metabolism); MALE; POTASSIUM (metabolism); PROPRANOLOL (pharmacodynamics); RENIN (blood); SODIUM (metabolism).

### Hatotani N

**ENDOCRINE STUDIES IN DEPRESSION.** pp. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E. In *0 In Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

### Hatt PY

**DEPENDENCE OF MYOCARDIAL REDOX SYSTEMS ON THE CONCENTRATION OF EXOGENOUS SUBSTRATE.** Moravec C, Corsin A, Hatt PY. *Recent Adv Stud Cardiac Struct Metab* 8: 167-77, 1975 (Eng) \*DL/76NOV574

### Hawkins-Carranza FG

**ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE.** Hawkins-Carranza FG, Larrodera L, Schuller A. *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

ADDISONS DISEASE (blood, drug therapy); BLOOD SUGAR (metabolism); CHOLECYSTOKININ (pharmacodynamics); HUMAN; HYDROCORTISONE (therapeutic use); INSULIN (blood); SECRETIN (pharmacodynamics).

### Hayashi S

**EFFECTS OF EPINEPHRINE AND THEOPHYLINE ON LIPOLYtic RESPONSE IN HEREDITARY DIABETIC MICE.** Hayashi S, Sakaguchi T. *Tohoku J Exp Med* 119: 91-100, May 76 (Eng) DL/76NOV259

ADIPONECTISSUE (enzymology); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); DIABETES MELLITUS (familial & genetic, metabolism, pathology); DRUG SYNERGISM; EPINEPHRINE (pharmacodynamics); INSULIN (blood); LIPIDS (metabolism); LIVER (metabolism, pathology); MALE; MICE; MICE, INBRED ICR; MICE, INBRED STRAINS; MICE, OBESEx; THEOPHYLLINE (pharmacodynamics); 3,5-CYCLOC AMP PHOSPHODIESTERASE (antagonists & inhibitors).

## Diabetes Literature—Author Index

Haylett JP

Haylett JP

NEPHROTIC SYNDROME: ETIOLOGY, DIAGNOSIS, AND TREATMENT. Finkelstein FO, Haylett JP. *Geriatrics* 31: 39-44, 48, AUG 76 (Eng) [46] DL/76NOV66

Heard CR

MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS. Millward DJ, Nyanaylugo DO, Bates P, Heard CR. *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

Hearse DJ

CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV. *Chir B Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

ACTION POTENTIALS; ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CORONARY CIRCULATION; CORONARY DISEASE (prevention & control); DRUG THERAPY; COMBINATION; ENERGY METABOLISM; GLUCOSE (metabolism); HEART ARREST, INDUCED (methods); HEMODYNAMICS; HYPOTHERMIA, INDUCED; INSULIN (metabolism); MALE; MYOCARDIUM (metabolism); PERfusion (methods); PHOSPHOCREATINE (metabolism); RATS; WATER-ELECTROLYTE BALANCE.

Heaton KW

LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD. Heaton KW, Manning AP, Hartog M. *Br J Nutr* 35: 55-60, Jan 76 (Eng) DL/76NOV643

ADULT; BLOOD SUGAR (metabolism); BODY WEIGHT; BREAD (analysis); CALCIUM (blood); CHOLESTEROL (blood); DIETARY CARBOHYDRATES; HEMOGLOBINS (metabolism); HUMAN; LIPIDS (blood); MALE; PHOSPHATES (blood); POLYSACCHARIDES (pharmacodynamics, analysis); TIME FACTORS; TRIGLYCERIDES (blood); UREA (blood); URIC ACID (blood); WHEAT (analysis).

Heffner TG

REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS. Marshall JF, Friedman MI, Heffner TG. *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

Heilmann E

NEW CLINICAL SYNDROMES UNDER REGULAR INTERMITTENT HEMODIALYSIS. Loew H, Samizadeh A, Heilmann E. *Curr Top Pathol* 61: 239-76, 1976 (Eng) [280] \*DL/76NOV464

Heine W

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbe K, Rahn A, Schmalz H. *Kindererzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

Heineke P

THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS. Emrich P, Fuchs U, Heineke P, Jutzi E, Godel E. *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

Heinrich R

THE REGULATION OF GLYCOLYSIS IN ERYTHROCYTES. PP. 195-209. Rapoport SM, Rapoport TA, Heinrich R. In *O Keleti T. ed. Mechanism of action and regulation of enzymes.*

Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV418

Heinz E

ENERGETIC COUPLING OF AMINO ACID TRANSPORT. PP. 107-15. Heinz E, Pietrzky C, Geck P, Pfeiffer B. In *Gardos G, Szasz I, ed. Biomembranes structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV392

AMINO ACIDS (metabolism);

AMINOISOBUTYRIC ACID (metabolism); ANIMAL EXPERIMENTS; BACTERIA (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CARCINOMA, EHRLICH TUMOR (metabolism); DNA (metabolism); ENERGY TRANSFER; KINETICS; MATHEMATICS; MICE; MODELS, BIOLOGICAL; MONOGRAPH; POTASSIUM (metabolism, pharmacodynamics); SODIUM (metabolism, pharmacodynamics).

Helfrich W

OUT-OF-PLANE FLUCTUATIONS OF LIPID BILAYERS. Helfrich W. *Z Naturforsch [C]* 30: 841-2, Nov-Dec 75 (Eng) \*DL/76NOV600

ELASTICITY; LIPIDS; MATHEMATICS;

MEMBRANES, ARTIFICIAL.

Hellman L

TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS. PP. 371-95. Weitzman ED, Hellman L. In *Ferin M et al., ed. Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) [56] \*DL/76NOV415

Hems DA

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whittom PD, Hems DA. *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Kirk CJ, Verrinder TR, Hems DA. *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

Hendel RC

PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY. Graeber GM, Marmor BM, Hendel RC, Gregg RO. *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

Herrera E

EFFECT OF EPINEPHRINE ON THE SYNTHESIS OF GLYCERIDE GLYCEROL IN ADIPOSE TISSUE IN VITRO. Dominguez MC, Herrera E. *Rev Esp Fisiol* 31: 293-7, Dec 75 (Eng) \*DL/76NOV572

Hershberger TV

MAINTENANCE REQUIREMENT AND ENERGETIC EFFICIENCY OF LEAN AND OBESE ZUCKER RATS. Deb S, Martin RJ, Hershberger TV. *J Nutr* 106: 191-7, Feb 76 (Eng) \*DL/76NOV502

Hertelendy F

EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOLISM. Hertelendy F, Dahm CH Jr, Mueller EJ. *Horm Metab Res* 8: 82-3, Jan 76 (Eng) \*DL/76NOV502

ADIPOSE TISSUE (metabolism, drug effects); ANIMAL EXPERIMENTS; FEMALE; GLUCOSE (metabolism); GLYCOLYSIS (drug effects); MEDROXYPROGESTERONE (pharmacodynamics); RATS.

Hervas F

CONVERSION OF L-THYROXINE TO TRIIODO-L-THYROXINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE. Hervas F, Morreale de Escobar G.

Escobar del Rey F. *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

ANIMAL EXPERIMENTS; HYPOTHYROIDISM (metabolism); MALE; PENTOBARBITAL (diagnostic use); PROPYLTHIOURACIL (pharmacodynamics); RATS; SOMATOTROPIN (metabolism); THYROIDECTOMY; THYROXINE (metabolism); TRIIODOTHYRONINE (metabolism).

Hervas Olivares F

[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESIVE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION] Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V. *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

Hervel S

[HYPOGLYCEMIA IN NEONATES FOLLOWING EXCHANGE TRANSFUSION (AUTHORS TRANSL.)] Hervel. *Monatsschr Kinderheilkd* 124: 548-50, Jul 76 (Eng) DL/76NOV178

BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; EXCHANGE TRANSFUSION (adverse effects); HUMAN; HYPOGLYCEMIA (etiology); INFANT; NEWBORN; INFANT, NEWBORN; DISEASES (etiology); TIME FACTORS.

Heuer HE

CALIBER CHANGES IN THE CUTANEOUS MICROVESSELS AS RELATED TO CHANGES IN BASAL METABOLISM IN DIABETICS. Ditzel J, Heuer HE. *Bibl Anat* 13: 219-21, 1975 (Eng) DL/76NOV351

Himsworth RL

ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG; THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN. Hollins PJ, Himsworth RL. *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG. Hollins PJ, Smith GH, Himsworth RL. *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) DL/76NOV33

Hincu N

[URICEMIA IN DIABETES MELLITUS: VARIATIONS AND SIGNIFICANCE] Dutu A, Hincu N, Hoinaresco E. *Rev Med Intern [Med Intern]* 28: 227-34, May-Jun 76 (Rum) DL/76NOV234

Hirschowitz BI

INHIBITION OF BASAL AND STIMULATED GASTRIC H& AND PEPSIN SECRETION IN DUODENAL ULCER PATIENTS BY METIAMIDE, AN H-2 HISTAMINE ANTAGONIST. Bajaj SC, Hirschowitz BI. *Am J Dig Dis* 21: 557-62, Jul 76 (Eng) DL/76NOV305

Hoag E

SOME PHYSIOLOGICAL AND BIOCHEMICAL MEASUREMENTS OVER THE MENSTRUAL CYCLE. PP. 259-75. Freedman SH, Ramcharan S, Hoag E, Goldfien A. In *Ferin M et al., ed. Biorhythms and human reproduction*. New York, Wiley, 1974. QT 167 B616 1972. (Eng) \*DL/76NOV413

Hoare EM

ABNORMAL BLOOD VISCOSITY IN DIABETES MELLITUS AND RETINOPATHY. Hoare EM, Barnes AJ, Dormandy JA. *Biorheology* 13: 21-5, Feb 76 (Eng) DL/76NOV11

BLOOD VISCOSITY: COMPARATIVE STUDY; DIABETES MELLITUS (physiopathology);

## Diabetes Literature—Author Index

Hove K

**DIABETIC RETINOPATHY (physiopathology); FEMALE; FIBRINOGEN (analysis); HEMATOCRIT; HUMAN; MALE; MIDDLE AGE; REGRESSION ANALYSIS.**

**Hochstadt J**  
**TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM.** Li CC, Hochstadt J. *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

**Hock RA**  
**GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY.** Tyson JE, Hock RA. *Am J Obstet Gynecol* 125: 1009-27, 1 AUG 76 (Eng) DL/76NOV308

**Hofstader LJ**  
**REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLYL CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN ESCHERICHIA COLI.** Saier MH Jr, Feucht BU, Hofstader LJ. *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

**Hoinarescu E**  
**[URICEMIA IN DIABETES MELLITUS: VARIATIONS AND SIGNIFICANCE]** Dutu A, Hincu N, Hoinarescu E. *Rev Med Intern [Med Intern]* 28: 227-34, May-Jun 76 (Rum) DL/76NOV234

**Hollande E**  
**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehy T, Accary JP, Roze C. *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

**CELL MOVEMENT; CULTURE MEDIA; EPITHELIAL CELLS (pathology, secretion); GASTRIN (secretion); GLUCAGON (secretion); HUMAN; HYPOGLYCEMIA (metabolism, pathology); INFANT; INSULIN (secretion); ISLANDS OF LANGERHANS (pathology); PANCREAS (pathology, secretion); PANCREATECTOMY; PANCREATIC DUCTS (pathology); TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).**

**Holley RW**  
**FACTORS CONTROLLING THE GROWTH OF 3T3 CELLS AND TRANSFORMED 3T3 CELLS. PP. 777-84.** Holley RW. In: Reich E, et al., ed. *Proteases and biological control.* Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975, W3 C162N v.2 1975. (Eng) DL/76NOV128

**BLOOD; CELL TRANSFORMATION, NEOPLASTIC; CELLS, CULTURED; COMPARATIVE STUDY; CULTURE MEDIA; DNA (biosynthesis); DNA, NEOPLASM (biosynthesis); FIBROBLASTS (drug effects, metabolism); GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); MONOGRAPH (mortality); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).**

**Hollingsworth WG**  
**HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS.** Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME. *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

**Hollins PJ**  
**ASPECTS OF THE SECONDARY ANTIBODY RESPONSE TO OX INSULIN IN THE HARTLEY GUINEA-PIG; THE USE OF CHEMICALLY MODIFIED OX INSULIN TO DELINEATE THE ANTIGENIC DETERMINANTS OF OX INSULIN.** Hollins PJ, Hinsworth RL. *Clin Exp Immunol* 23: 507-16, Mar 76 (Eng) DL/76NOV32

**ANIMAL EXPERIMENTS (analysis); ANTIBODY FORMATION; ANTIGENIC DETERMINANTS; BODY WEIGHT; CATTLE (immunology); CROSS REACTIONS; FEMALE; GUINEA PIGS; HYPOGLYCEMIA (chemically induced); IMMUNIZATION; IMMUNIZATION, SECONDARY; INSULIN ANTIBODIES (biosynthesis); INSULIN (immunology).**

**DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG.** Hollins PJ, Smith GH, Hinsworth RL. *Clin Exp Immunol* 24: 507-14, Jun 76 (Eng) DL/76NOV33

**ACYCLATION; ANIMAL EXPERIMENTS (analysis); ANTIBODY FORMATION; ANTIGENIC DETERMINANTS; BINDING SITES, ANTIBODY; CROSS REACTIONS; FEMALE; GUINEA PIGS; IMMUNIZATION, SECONDARY; INSULIN ANTIBODIES (analysis); INSULIN (immunology); INSULIN (analogs & derivatives).**

**Holloszy JO**  
**A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT.** Rennie MJ, Winder WW, Holloszy JO. *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

**Holman GD**  
**THE EFFECTS OF REMOVAL OF SODIUM IONS FROM THE MUCOSAL SOLUTION ON SUGAR ABSORPTION BY RABBIT ILEUM.** Naftalin RJ, Holman GD. *Biochim Biophys Acta* 419: 385-90, 21 Jan 76 (Eng) \*DL/76NOV429

**Holtzman JL**  
**KINETIC STUDIES ON THE METABOLISM OF ETHYL MORPHINE BY ISOLATED HEPATOCYTES FROM ADULT RATS.** Erickson RR, Holtzman JL. *Biochem Pharmacol* 25: 1501-6, 1 Jul 76 (Eng) DL/76NOV379

**Holz RW**  
**IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM.** Kafka MS, Holz RW. *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

**Holzl VM**  
**[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATUREN DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)]** Holzl VM, Luthe D, Deitrich H. *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

**ANGIOMATOSIS (diagnosis); BLOOD GROUP INCOMPATIBILITY (complications); CHORIONIC VILLI (blood supply); ENGLISH ABSTRACT; ERYTHROBLASTOSIS, FETAL (complications); FEMALE; HUMAN; NECROSIS; ORGAN WEIGHT; PLACENTA DISORDERS (diagnosis, etiology); PLACENTA; PREGNANCY; REGIONAL BLOOD FLOW; RH-BLOOD-GROUP SYSTEM.**

**Honigberg IL**  
**GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES.** Braselton WE Jr, Bransome ED Jr.

**Ashline HC, Stewart JT, Honigberg IL. *Anal Chem* 48: 1386-94, Aug 76 (Eng) DL/76NOV316**

**Hope-Gill HF**  
**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kissebah AH, Clarke P, Vydellung N, Tulloch B, Fraser TR. *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV79

**ADIPOSE TISSUE (drug effects, metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; CALCIUM (metabolism, physiology); ENZYME ACTIVATION (drug effects); GLYCOGEN SYNTHETASE (metabolism); INSULIN (pharmacodynamics, physiology); MALE; PROCAINE (pharmacodynamics); RATS.**

**Hori M**  
**OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA.** Inoue M, Kajita F, Inada H, Kitabatake A, Hori M. *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

**Horigome K**  
**PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY.** Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S. *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

**Horikawa S**  
**DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A POLYSOMES IN RAT LIVER.** Nakanishi S, Tanabe T, Horikawa S, Numa S. *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

**Horiuchi N**  
**STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST.** Sasaki A, Horiuchi N. *J Chronic Dis* 29: 129-40, Feb 76 (Eng) DL/76NOV91

**Horst W**  
**[EXHALATION DIAGNOSIS WITH C14 TAGGED COMPOUNDS, METHODS AND RESULTS]** Lutolf UM, Glanzmann C, Renk IW, Horst W. *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

**Hosking DJ**  
**CARDIOVASCULAR REFLEX RESPONSES TO APNOEIC FACE IMMERSION AND MENTAL STRESS IN DIABETIC SUBJECTS.** Bennett T, Hosking DJ, Hampton JB. *Cardiovasc Res* 10: 192-9, Mar 76 (Eng) DL/76NOV27

**OSESPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS.** Stewart IM, Hosking DJ, Preston BJ, Atkinson M. *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

**Houston M**  
**TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE.** Green H, Bishop P, Houston M, McKillop R, Norman R, Stothart P. *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

**Hove K**  
**GROWTH HORMONE, INSULIN AND SUGAR IN THE BLOOD PLASMA OF BULLS. INTERRELATED DIURNAL VARIATIONS.** Blom AK, Hals K, Hove K. *Acta Endocrinol (Kbh)* 82: 758-66, Aug 76 (Eng) DL/76NOV289

## Diabetes Literature—Author Index

### Howell SL

GROWTH HORMONE RELATED TO INSULIN AND SUGAR IN NOCTURNAL BLOOD PLASMA OF LACTATING COWS. Halse K, Blom AK, Hove K *Acta Endocrinol (Kbh)* 82: 767-73, Aug 76 (Eng) DL/76NOV290

### Howell SL

THE MODE OF ACTION OF ADENOSINE 3:5-CYCLOC PHOSPHATE IN THE REGULATION OF INSULIN SECRETION. Montague W, Howell SL *Ciba Found Symp* 41: 141-58, 1976 (Eng) \*DL/76NOV38

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

### Hubbard JS

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLOBIUM. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657  
ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (biosynthesis); AMINO ACIDS (metabolism); BACTERIORHODOPSIN (biosynthesis); BIOLOGICAL TRANSPORT, ACTIVE; CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONIUM (pharmacodynamics); DICYCLOXYHEXYL CARBOBIMIDE (pharmacodynamics); GLYCERIN (metabolism); HALOBACTERIUM (metabolism, enzymology); HISTIDINE (metabolism); LEUCINE (metabolism); LIGHT; PHOTOPHOSPHORYLATION (drug effects); PROLINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

### Hubschmann K

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spaeth U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lüdtke E, Robbe K, Rahn A, Schmalz H *Kinderärztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

### Hulan HW

EFFECT OF COLD STRESS ON RAPESEED OIL-FED RATS. Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547  
ANIMAL EXPERIMENTS; BODY WEIGHT; COLD; DIETARY FATS; FATTY ACIDS (metabolism); LIPIDS (metabolism); MALE; MYOCARDIUM (metabolism, pathology); NECROSIS; OILS (pharmacodynamics); PLANTS; RATS; STRESS (metabolism, mortality, pathology).

### Hulsen W

[ISOLATION AND PROPERTIES OF THE CELL ENVELOPE OF THE GREEN ALGA CHLORELLA FUSCA (AUTHORS TRANSL)] Hulsen W, Kubin D *Z Naturforsch [C]* 30: 684-6, Sep-Oct 75 (Ger) \*DL/76NOV599  
CELL FRACTIONATION; CELL WALL (metabolism, ultrastructure, analysis); CHLORELLA (metabolism); ENGLISH ABSTRACT; FATTY ACIDS (analysis); GALACTOSE (metabolism); GLUCOSE (metabolism); HEXOSES (metabolism); MANNOSE (metabolism); TEMPERATURE.

### Humbel RE

POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARAC-

TERIZATION, AND SOME BIOLOGICAL PROPERTIES OF FORMS I AND II. Rinderknecht E, Humbel RE *Proc Natl Acad Sci USA* 73: 2365-9, Jul 76 (Eng) DL/76NOV215

### Hutton RA

DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCEMIA. Hutton RA, Macnab AJ, Rivers RP *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329  
ADENINE NUCLEOTIDES (blood); ADENOSINE DIPHOSPHATE (blood, pharmacodynamics); ADENOSINE TRIPHOSPHATE (blood); BLOOD PLATELET DISORDERS (blood, complications); CASE REPORT; CHILD; COLLAGEN (pharmacodynamics); EPINEPHRINE (pharmacodynamics); FEMALE; GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (complications, drug therapy); INFANT; PLATELET AGGREGATION (drug effects); RISTOCETIN (pharmacodynamics).

### Iancu M

METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS. Avram MM, Lipner HI, Sadiqali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

### Ianuzzo CD

PHOSPHOFRUCTOKINASE AND SUCCINATE DEHYDROGENASE ACTIVITIES OF NORMAL AND DIABETIC RAT SKELETAL MUSCLE. Ianuzzo CD, Armstrong RB *Horm Metab Res* 8: 244-5, May 76 (Eng) DL/76NOV78  
ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (chemically induced, enzymology); MUSCLES (enzymology); ORGAN SPECIFICITY; PHOSPHOFRUCTOKINASE (metabolism); RATS; STREPTOZOTOCIN; SUCCINATE DEHYDROGENASE (metabolism).

### Ignatov A

[POSSIBILITIES OF RADIOISOTOPE DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS] Ignatov A, Karastanov I, Minchev M *Urol Nefrol (Mosk)* 13-5, Sept-Oct 75 (Rus) DL/76NOV263  
ADOLESCENCE; ADULT; AGED; DIABETIC NEPHROPATHIES (diagnosis, physiopathology); ENGLISH ABSTRACT; FEMALE; GLOMERULAR FILTRATION RATE; HUMAN; KIDNEY GLOMERULUS (physiopathology); MALE; MIDDLE AGE; NEPHROSCLEROSIS (diagnosis, physiopathology); PYELONEPHRITIS (diagnosis, physiopathology); RADIOTRANSPORE; RENOGRAPHY.

### Ikeda S

IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL. Sarma JS, Fischer R, Ikeda S, Bing RJ *Proc Soc Exp Biol Med* 151: 303-6, Feb 76 (Eng) \*DL/76NOV568

### Illingworth DR

ARTERIAL METABOLISM IN PRIMATES. Portman OW, Illingworth DR *Primates Med* 9: 145-223, 1976 (Eng) \*DL/76NOV672

### Illingworth JA

REGULATION OF MYOCARDIAL ENERGY METABOLISM. Illingworth JA, Ford WC, Kobayashi K, Williamson JR *Recent Adv Stud Cardiac Struct Metab* 8: 271-90, 1975 (Eng) \*DL/76NOV575  
ACETYL COENZYME A (metabolism); ADENINE NUCLEOTIDES (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; COENZYME A

(metabolism); CYTOPLASM (metabolism); ENERGY METABOLISM; KETOGLUTARIC ACIDS (metabolism); KREBS CYCLE; LACTATES (biosynthesis); MALATES (metabolism); MALE; MITOCHONDRIA; MUSCLE (metabolism); MYOCARDIUM (metabolism); NAD (metabolism); OXYGEN CONSUMPTION; PYRUVATES (metabolism); RATS; SUCCINATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Imparato AM

LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

### Imura H

POTENTIATION BY THEOPHYLLINE OF ARGinine-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS. PP. 243-50. Imura H, Kata Y *Inn Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

ADRENERGIC BETA RECEPTOR

BLOCKADERS (pharmacodynamics); ADRENERGIC RECEPTOR AGONISTS (pharmacodynamics); ANIMAL EXPERIMENTS (pharmacodynamics); HUMAN; HYPOTHALAMO-HYPOPHYSAL SYSTEM (drug effects); MONOGRAPH; PROLACTIN (secretion); RATS; SOMATOTROPIN (secretion).

### Inada H

OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiya F, Inada H, Kitabatake A, Hori M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

### Inoue M

OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiya F, Inada H, Kitabatake A, Hori M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34  
BLOOD SUGAR; DECISION MAKING; DIABETIC COMA (therapy); INSULIN (therapeutic use); MATHEMATICS; MODELS, THEORETICAL.

### Invitti C

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

### Ionescu-Tirgoviste C

[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA] Minicu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

### Ireland JT

PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESIVE DIABETIC PATIENTS. Kesson CM, Ireland JT *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

## Diabetes Literature—Author Index

Johnson GS

### Ishii S

**PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY.** Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

### Ismanov AD

**RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA** Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biochimia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

### Itabashi H

**PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY.** Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

### Iudaev NA

**CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION** Iudaev NA, Afinogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601  
**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (physiology; metabolism); **ADENYL CYCLASE** (metabolism); **ADRENAL CORTEX HORMONES** (biosynthesis); **ADRENAL GLANDS** (metabolism); **ANIMAL EXPERIMENTS; CELL MEMBRANE** (metabolism); **CELL NUCLEUS** (metabolism); **CHOLESTEROL** (metabolism); **CHROMATIN** (metabolism); **CORTICOTROPIN** (pharmacodynamics); **GUANOSINE CYCLIC 3,5 MONOPHOSPHATE** (physiology); **GUANYL CYCLASE** (metabolism); **HORMONES** (metabolism); **NUCLEOPROTEINS** (metabolism); **PHOSPHORUS** (metabolism); **PROTEIN KINASE** (metabolism); **PROTEINS** (metabolism); **RECEPTORS, HORMONE; REVIEW; RIBOSOMES** (metabolism).

### Iurovitskii IUG

**CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OOCYTES AND EMBRYOS OF TELEOSTS** Iurovitskii IUG, Milman LS *Biochimia* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440  
**ANIMAL EXPERIMENTS; EMBRYO** (enzymology); **ENGLISH ABSTRACT**; **FISHES** (embryology); **GLUCOSYLTRANSFERASES** (metabolism); **GLYCOGEN DEBRANCHING ENZYME** (metabolism); **GLYCOGEN PHOSPHORYLASE** (metabolism); **GLYCOGEN SYNTHETASE** (metabolism); **GLYCOGEN** (metabolism); **OOCYTES** (enzymology); **OVUM** (enzymology).

### Iversen JG

**K & TRANSPORT IN ISOLATED RAT LIVER CELLS STIMULATED BY GLUCAGON AND INSULIN IN VITRO.** Berg T, Iversen JG *Acta Physiol Scand* 97: 202-8, Jun 76 (Eng) DL/76NOV297

### Ivlev AA

**THE MECHANISM OF CARBON ISOTOPE FRACTIONATION IN THE METABOLIC PROCESS** Ivlev AA, Koroleva Mla, Kaloshin AG *Mol Biol (Mosk)* 9: 435-42, May-Jun 75 (Rus) \*DL/76NOV556  
**CARBON ISOTOPES; ENGLISH ABSTRACT; ISOTOPE LABELING; KINETICS; KREBS CYCLE; OXYGEN CONSUMPTION; PYRUVATES** (metabolism).

### Iwasaki Y

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HOR-**

**MONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

### Jaffiol C

**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS** Mirozze J, Seignalet J, Selam JL, Lapinska H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

### Jain K

**PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO.** Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

**ALLOXAN** (pharmacodynamics); **ANIMAL EXPERIMENTS** (analysis); **CARBOHYDRATES** (pharmacodynamics); **CELL SURVIVAL** (drug effects); **FEMALE; GLUCOSE** (pharmacodynamics); **GLYCERALDEHYDE** (pharmacodynamics); **IN VITRO; ISLANDS OF LANGERHANS** (drug effects, metabolism); **PROINSULIN** (biosynthesis); **RATS; TRANSLATION, GENETIC** (drug effects).

### James H

**STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS.** Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *J Q Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

### James S

**PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN.** Notelevitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

### Jarrett IG

**GLUCONEOGENESIS IN ISOLATED INTACT LAMB LIVER CELLS. EFFECTS OF GLUCAGON AND BUTYRATE.** Clark MG, Filsell OH, Jarrett IG *Biochem J* 156: 671-80, 15 Jun 76 (Eng) DL/76NOV374

### Jeacock MK

**HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS.** Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

### Jeejee hoy KN

**METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE.** Jeejee hoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliiss EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659  
**ADULT; AGED; AMINO ACIDS** (therapeutic use); **BODY WEIGHT; CHOLESTEROL** (blood); **COMPARATIVE STUDY; DIETARY CARBOHYDRATES** (administration & dosage); **DIETARY FATS** (administration & dosage); **ENERGY METABOLISM**; **FEMALE; GLUCOSE** (therapeutic use); **HUMAN; INFUSIONS, PARENTERAL; LIPIDS** (therapeutic use); **MALE; MIDDLE AGE; NITROGEN** (metabolism); **PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; TRIGLYCERIDES** (blood); **VITAMINS** (therapeutic use).

### Jerome DW

**SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA.** Millard PR, Jerome DW, Millward-Sadler GH *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

### Jervell J

**[ORAL DRUGS FOR DIABETICS—DANGEROUS DRUGS FOR DIABETICS]** Jervell J *Tidsskr Nor Laegeforen* 96: 1149, 10 Aug 76 (Nor) DL/75NOV256

**ADMINISTRATION, ORAL; CARDIOVASCULAR DISEASES** (chemically induced); **DIABETES MELLITUS** (drug therapy); **HUMAN; HYPOGLYCEMIC AGENTS** (administration & dosage, adverse effects).

### Johansson EB

**DISTRIBUTION OF LABELLED STREPTOZOTOCIN IN MICE: UPTAKE AND RETENTION IN PANCREATIC ISLETS.** Tjälve H, Wilander E, Johansson EB *J Endocrinol* 69: 455-6, Jun 76 (Eng) DL/76NOV134

### Johns JT

**GROWTH IN SHEEP, PRE- AND POST-WEANING HORMONE CHANGES AND MUSCLE AND LIVER DEVELOPMENT.** Johns JT, Bergen WG *J Anim Sci* 43: 192-200, Jul 76 (Eng) DL/76NOV85

**ADRENAL GLANDS** (growth & development); **AMINO ACIDS** (metabolism); **ANIMAL EXPERIMENTS** (analysis); **DIETARY PROTEINS** (metabolism); **DNA** (biosynthesis); **FEMALE; INSULIN** (blood); **LIVER** (growth & development, metabolism); **MALE; MUSCLES** (growth & development, metabolism); **PITUITARY GLAND** (metabolism); **PROTEINS** (biosynthesis); **RNA** (biosynthesis); **SHEEP** (growth & development); **SOMATOTROPIN** (blood); **WEANING**.

### Johnsen T

**A NEW STANDARDIZED AND EFFECTIVE METHOD OF INDUCING PARALYSIS WITHOUT ADMINISTRATION OF EXOGENOUS HORMONE IN PATIENTS WITH FAMILIAL PERIODIC PARALYSIS.** Johnsen T *Acta Neurol Scand* 54: 167-72, Aug 76 (Eng) DL/76NOV292

**BLOOD SUGAR** (metabolism); **GLUCOSE TOLERANCE TEST**; **HUMAN; MALE; METHODS; PARALYSIS, FAMILIAL PERIODIC** (blood, physiopathology); **POTASSIUM** (blood); **WEANING**.

### Johnson B

**JAMAICAN VOMITING SICKNESS. BIOCHEMICAL INVESTIGATION OF TWO CASES.** Tanaka K, Kean EA, Johnson B *N Engl J Med* 295: 461-7, 26 Aug 76 (Eng) DL/76NOV182

**SPONTANEOUS DIABETES MELLITUS IN A TURTLE.** Frye FL, Dutra FR, Carney JD, Johnson B *Vet Med Small Anim Clin* 71: 935-9, Jul 76 (Eng) DL/76NOV267

### Johnson GS

**EFFECTS OF SUGARS ON THE PHYSIOLOGY OF CULTURED FIBROBLASTS.** Johnson GS, Schwartz JP *Exp Cell Res* 97: 281-90, Feb 76 (Eng) \*DL/76NOV481

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (metabolism); **ADENOSINE TRIPHOSPHATE** (metabolism); **ARABINOSE** (pharmacodynamics); **CARBOHYDRATES** (pharmacodynamics); **CELL ADHESION** (drug effects); **CELL DIVISION** (drug effects); **CELL LINE**; **CELL TRANSFORMATION**; **NEOPLASTIC**; **CELLS, CULTURED** (physiology); **COMPARATIVE STUDY**; **DEOXYGLUCOSE** (pharmacodynamics); **FRUCTOSE** (pharmacodynamics); **FRUCTOSEPHOSPHATES** (pharmacodynamics); **GALACTOSE** (pharmacodynamics); **GLUCONATES** (pharmacodynamics); **GLUCOSE** (pharmacodynamics); **GLUCOSEPHOSPHATES** (pharmacodynamics); **GLYCERIN** (pharmacodynamics); **MANNOSE** (pharmacodynamics); **MUTATION**; **NAD** (metabolism); **SORBITOL** (pharmacodynamics); **SUCCINATES** (pharmacodynamics).

## Diabetes Literature—Author Index

Johnson RH

Johnson RH

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR. *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

Jones CJ

PLACENTAL CHANGES IN GESTATIONAL DIABETES. AN ULTRASTRUCTURAL STUDY. Jones CJ, Fox H. *Obstet Gynecol* 48: 274-80, Sep 76 (Eng) DL/76NOV197

ALKALINE PHOSPHATASE; ARYLSULFATASES; CHORIONIC VILLI (pathology, ultrastructure); FEMALE; HISTOCYTOCHEMISTRY; HUMAN; PLACENTA (blood supply, pathology, ultrastructure); PREGNANCY IN DIABETES (pathology); PREGNANCY; TROPHOBlast (pathology, ultrastructure).

Joost HG

THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT. Lenzen S, Joost HG, Hasselblatt A. *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

Jordana R

SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOPHALUS HORTENSIS MULLER). Barber A, Jordana R, Ponz F. *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) \*DL/76NOV51

Jouhaneau J

[INTRAVENOUS SELF ADMINISTRATION OF INSULIN IN THE RAT] Jouhaneau J. *C R Acad Sci [Paris]* 282: 1685-8, 10 May 76 (Fre) DL/76NOV30

ANIMAL EXPERIMENTS (analysis); BEHAVIOR, ANIMAL; EATING; ENGLISH ABSTRACT; HEART CATHETERIZATION; INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage); RATS.

Joyce J

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Solesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV. *J Perinat Med* 3: 180-97, 1975 (Eng) DL/76NOV537

Juler GL

EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLOROPLASTY. Juler GL, Dagrad AE, Stempien SJ, Combs RC. *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

AFFERENT LOOP SYNDROME (complications); DRAINAGE; DUODENAL ULCER (surgery); GASTROENTEROSTOMY; HUMAN; INSULIN (diagnostic use); PYLORUS (surgery); RECURRENT; RETROSPECTIVE STUDIES; TOLBUTAMIDE (diagnostic use); VAGOTOMY.

Julian M

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT. *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

Jutzi E

THE EPITHELIAL AND CAPILLARY BASAL LAMINAE OF THE PLACENTA IN MATERNAL DIABETES MELLITUS. Emrich P, Fuchs U, Heinke P, Jutzi E, Godel E. *Lab Invest* 35: 87-92, Jul 76 (Eng) DL/76NOV160

Kaback HR

TRANSPORT STUDIES IN BACTERIAL MEMBRANE VESICLES. Kaback HR. *Science* 186: 882-92, 6 Dec 74 (Eng) [105] \*DL/76NOV586

ANAEROBOSIS; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; BUTYRIC ACIDS (pharmacodynamics); CARBOHYDRATES (metabolism); CELL MEMBRANE (metabolism, enzymology, ultrastructure); DIFFUSION; ENERGY METABOLISM; *Escherichia coli* (ultrastructure); FLUORESCENT DYES; FREEZE ETCHING; LACTATE DEHYDROGENASE (metabolism, antagonists & inhibitors); MODELS, BIOLOGICAL; REVIEW.

Kaden R

[SCHNYDERS CORNEAL DYSTROPHY AND HYPERLIPIDEMIA (AUTHORS TRANS)] Kaden R, Feuerle G. *Albrecht von Graefes Arch Klin Ophthalmol* 198: 129-38, 4 Feb 76 (Ger) \*DL/76NOV625

ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); CASE REPORT; CHILD; CORNEAL DYSTROPHIES (familial & genetic, complications); CORNEAL OPACITY (familial & genetic, complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERCHOLESTEREMIA (etiology); HYPERLIPIDEMIA (etiology); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; PEDIGREE; TRIGLYCERIDES (blood).

Kadival GV

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG. *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

Kafka MS

IONOPHORES X537A AND A23187. EFFECTS ON THE PERMEABILITY OF LIPID BIMOLECULAR MEMBRANES TO DOPAMINE AND CALCIUM. Kafka MS, Holz RW. *Biochim Biophys Acta* 426: 31-7, 19 Feb 76 (Eng) \*DL/76NOV438

A23187; ANTIBIOTICS; BINDING SITES; BIOLOGICAL TRANSPORT; CALCIUM; CHOLESTEROL; DOPAMINE; ELECTRIC CONDUCTIVITY; KINETICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; PERMEABILITY; PHOSPHATIDYL CHOLINE; X 537A.

Kageyama T

[CARBOHYDRATE METABOLISM OF DIAPAUSING INSECTS (AUTHORS TRANS)] Kageyama T, Takahashi SY. *Protein Nucleic Acid Enzyme (Tokyo)* 20: 1285-300, Dec 75 (Jpn) [134] \*DL/76NOV570

ACID PHOSPHATASE (metabolism); ADAPTATION, PHYSIOLOGICAL; ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CARBOHYDRATES (metabolism); FLIES (metabolism); GLYCERIN (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); GLYCOGEN (metabolism); HEMOLYMPH (enzymology); INSECTS (metabolism); LACTATES (metabolism); OVM (metabolism); PROTEIN KINASE (metabolism); REVIEW; SILKWORMS (metabolism); SORBITOL (metabolism); TREHALASE (classification, metabolism); TREHALOSE (metabolism).

Kahn CR

MEMBRANE RECEPTORS FOR HORMONES AND NEUROTRANSMITTERS. Kahn CR. *J Cell Biol* 70: 261-86, Aug 76 (Eng) DL/76NOV89

AMINO ACIDS (analysis); ANIMAL EXPERIMENTS (analysis); BINDING SITES; BINDING, COMPETITIVE; CELL DIVISION;

CELL FRACTIONATION; CELL MEMBRANE (metabolism, ultrastructure); CELL TRANSFORMATION, NEOPLASTIC; HORMONES (metabolism); HUMAN; INSULIN (metabolism); KINETICS; MATHEMATICS; MODELS, BIOLOGICAL; MOLECULAR WEIGHT; NEUROHUMORS (metabolism); ORGANOIDS (analysis); PROTEIN CONFORMATION; RECEPTORS, ADRENERGIC; RECEPTORS, CHOLINERGIC; RECEPTORS, HORMONE; STRUCTURE-ACTIVITY RELATIONSHIP.

Kahn SB

RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE. Kahn SB, Cheung T, Lodise R, Brodsky I. *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

ADENOSINE TRIPHOSPHATE (metabolism); AGING; ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); DIPHOSPHOGLYCERIC ACIDS (biosynthesis); ERYTHROCYTE AGING; ERYTHROPOEISIS; FEMALE; HEMOGLOBINS (analysis); IRON (metabolism); LYMPHOMA (metabolism); MICE, MICE, INBRED AKR (blood); MICE, INBRED BALB C; MICE, INBRED C3H; OSMOTIC FRAGILITY; PRECANCEROUS CONDITIONS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Kai Y

PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY. Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S. *J Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

Kajiyama F

OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA. Inoue M, Kajiyama F, Inada H, Kitabatake A, Hori M. *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

Kakizaki M

PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING. Goto Y, Kakizaki M, Masaki N. *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) DL/76NOV258

Kalkhoff RK

PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM. Kalkhoff RK, Gossman VV, Matute ML, Wilson SD. *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

ADULT; AGED; ARGinine (diagnostic use); BLOOD SUGAR; CLINICAL RESEARCH; FEMALE; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HUMAN; HYPERINSULINISM (complications); HYPERPARATHYROIDISM (blood, complications); INSULIN (blood); ISLANDS OF LANGERHANS (cytology); MALE; MIDDLE AGE; PROTEINS (diagnostic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Kaloshin AG

[THE MECHANISM OF CARBON ISOTOPE FRACTIONATION IN THE METABOLIC PROCESS] Ivlev AA, Koroleva MIA, Kaloshin AG. *Mol Biol (Mosk)* 9: 435-42, May-Jun 75 (Rus) \*DL/76NOV556

Kameoka K

EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS. Tanabe S, Kameoka K. *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV6

## Diabetes Literature—Author Index

Kean EA

### Kammula RG

**EFFECT OF EXPERIMENTALLY INDUCED HYPERKETONEMIA ON GLUCOSE METABOLISM OF OVINE BRAIN IN VIVO.** Kammula RG *Am J Vet Res* 37: 935-8, Aug 76 (Eng) DL/76NOV318  
**ACETOACETATES** (blood); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); BRAIN (metabolism); FASTING; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCOSE (metabolism); INSULIN (blood); LACTATES (blood); SHEEP (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Kamp HH

**THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM.** Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

### Kaneko T

**ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOTHYROIDIC HORMONES.** PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N *Inn Hatoiani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); ANIMAL EXPERIMENTS; BINDING, COMPETITIVE; LH (metabolism); LH-FSH RELEASING HORMONE (pharmacodynamics, analogs & derivatives); MONOGRAPH; PITUITARY GLAND (metabolism); PROTEIN BINDING; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (metabolism).**

### Kansal PC

**LETTER: DIABETES MELLITUS, CHROMOSOMAL ABERRATION, AND MALIGNANCY.** Shaw JF, Kansal PC, Gatta RA *Lancet* 2: 315, 7 Aug 76 (Eng) DL/76NOV166

### Kao R

**EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS.** Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117-23, 1976 (Eng) \*DL/76NOV611

**ADENINE NUCLEOTIDES (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; ANOXIA (metabolism); CORONARY DISEASE (metabolism); GUANOSINE TRIPHOSPHATE (metabolism); MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism); PERfusion; PHOSPHOCREATINE (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Kaplan BS

**EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULI.** Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543  
**ADENINE** (pharmacodynamics); **ADRIAMYCIN** (pharmacodynamics); ANIMAL EXPERIMENTS; BLOOD PROTEINS (analysis); CARBON DIOXIDE (biosynthesis); CARBON RADIOISOTOPES; DAUNOMYCIN (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG ADMINISTRATION SCHEDULE; DRUG

ANTAGONISM; GLUCOSE (metabolism); GLUTAMINE (metabolism); HYPERCHOLESTERolemIA (chemically induced); KIDNEY GLOMERULUS (drug effects, metabolism); MALE; NEPHROTIC SYNDROME (chemically induced); OXIDATION-REDUCTION; PROTEINURIA (chemically induced); PUROMYCIN AMINONUCLEOSIDE (pharmacodynamics); PUROMYCIN (analogs & derivatives); PYRUVATES (metabolism); RATS.

### Kaplan MA

**[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS.]** Bogoliubov VM, Ershova LM, Kaplan MA, Syzgantseva LM *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

### Karnev MA

**[EFFECT OF SODIUM SELENITE ON THE RATE OF GLYCOLYSIS UNDER AN INTENSIVE MUSCULAR LOAD.]** PP. 94-5. Karnev MA, Gasanov GG *Inn Gasanov GG, ed. Selen v biologii. Baku, Elm, 1974.* QV 618 S464 1974. (Rus) \*DL/76NOV384

ANIMAL EXPERIMENTS; DEPRESSION, CHEMICAL; ENGLISH ABSTRACT; EXERTION (drug effects); GLYCOLYSIS (drug effects); LACTATES (blood); MONOGRAPH; RABBITS; SELENIUM (pharmacodynamics); TIME FACTORS.

### Karam JH

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

### Karassik A

**[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT.]** Dimitriu CG, Manu P, Karassik A, Draganovici M, Gavril F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

### Karastanov I

**[POSSIBILITIES OF RADIOISOTOPE DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS.]** Ignatov A, Karastanov I, Minchev M *Urol Nefrol (Mosk)* 13-6, Sept-Oct 75 (Rus) DL/76NOV263

### Kashulina AP

**[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH.]** Kashulina AP, Tereshchenko IP *Patol Fiziol Eksperim Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

**ADRENAL GLAND HYPERPERFUSION** (complications); **GYNecomastia** (complications); **HORMONES, ECTOPIC** (secretion); **HUMAN, HYPERPITUITARISM** (complications); **HYPOGLYCEMIA** (complications); **HYPONATREMIA** (complications); **MALE, MALIGNANT CARCINOID SYNDROME** (complications); **NEOPLASMS** (etiology, pathology, secretion); **NEOPLASTIC ENDOCRINE-LIKE SYNDROMES** (complications); **OSMOLAR CONCENTRATION, POLYCYTHEMIA VERA** (complications); **PUBERTY, PRECOCIOUS** (complications); **REVIEW, SYNDROME; VASOPRESSIN** (secretion); **ZOLLINGER-ELLISON SYNDROME** (complications).

### Kashyap ML

**CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-MATURITY.** Kashyap ML, Sivasamboo R, Sothy SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

ADOLESCENCE; ADULT; BIRTH WEIGHT; BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; FETAL BLOOD (metabolism); HUMAN; INFANT, NEWBORN; INSULIN (blood); LABOR (drug effects); LABOR, INDUCED; LACTATES (blood); LIPOPOLYMERIZATION; OXYTOCIN (pharmacodynamics); PREGNANCY; TIME FACTORS.

### Kastner LS

**CHRONICALLY ILL CHILDREN. A PSYCHOLOGICALLY AND EMOTIONALLY DEVIANT POPULATION.** Tavormina JB, Kastner LS, Slater PM, Watt SL *J Abnorm Child Psychol* 4: 99-110, 1976 (Eng) DL/76NOV110

### Kataria RN

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

### Kato Y

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

**ROLE OF MONOAMINES IN THE CONTROL OF GROWTH HORMONE AND PROLACTIN SECRETION IN MAN AND RATS.** PP. 243-50. Imura H, Kato Y *Inn Hatoiani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV412

### Katocs AS Jr

**PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS.** Allen DO, Katocs AS Jr, Largis EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

### Kawachi H

**HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELED HORMONE.** Kawachi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

**AMINO ACIDS (analysis); ANIMAL EXPERIMENTS; BIOLOGICAL ASSAY; CROP, AVIAN (drug effects); GEL DIFFUSION TESTS; HUMAN; ISOTOPE LABELING; PIGEONS; PROLACTIN (pharmacodynamics); SOMATOTROPIN (pharmacodynamics); TRITIUM.**

### Kean EA

**JAMAICAN VOMITING SICKNESS. BIOCHEMICAL INVESTIGATION OF TWO CASES.** Tanaka K, Kean EA, Johnson B *Engl J Med* 295: 461-7, 26 Aug 76 (Eng) DL/76NOV182

**SELECTIVE INHIBITION OF ACYL-COA DEHYDROGENASES BY A METABOLITE OF HYPOGLYCEMIA.** Kean EA *Biochim Biophys Acta* 422: 8-14, 23 Jan 76 (Eng) \*DL/76NOV432

## Diabetes Literature—Author Index

### Keller KF

ALANINE (analogs & derivatives, pharmacodynamics); AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; BUTYRATES (metabolism); COENZYME A (metabolism); CYCLOPROPANES (pharmacodynamics); GLUTAMATE DEHYDROGENASE (metabolism); KINETICS; MITOCHONDRIA, LIVER (enzymology, drug effects); OXIDOREDUCTASES (metabolism); PALMITIC ACIDS; PLANTS, TOXIC; RATS.

### Keller KF

A MECHANISM FOR TOBACCO SMOKE-INDUCED ALLERGY. Keller KF, Doyle RJ *J Allergy Clin Immunol* 57: 278-82, Mar 76 (Eng) \*DL/76NOV52

ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); ANIMAL EXPERIMENTS; AUTONOMIC NERVOUS SYSTEM (drug effects); BLOOD SUGAR (metabolism); EPINEPHRINE (pharmacodynamics); FEMALE; HISTAMINE (pharmacodynamics); HYPERSENSITIVITY (etiology); ISOPROTERENOL (pharmacodynamics); MICE; RECEPTORS, ADRENERGIC (drug effects); SMOKING; TOBACCO.

### Kemmler W

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In 0 Reich E, et al., ed. Proteases and biological control. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) [104]* DL/76NOV129

### Kemp E

DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS. Roed-Petersen K, Thayssen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE. Thayssen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

### Kessen W

HUMAN NEWBORNS DIFFERENTIATE DIFFERING CONCENTRATIONS OF SUCROSE AND GLUCOSE. Nowlis GH, Kessen W *Science* 191: 865-6, 27 Feb 76 (Eng) \*DL/76NOV587

### Kesson CM

PHENFORMIN COMPARED WITH FENFLURAMINE IN THE TREATMENT OF OBESE DIABETIC PATIENTS. Kesson CM, Ireland JT *Practitioner* 216: 577-80, May 76 (Eng) DL/76NOV213

ADULT; AGED; CLINICAL RESEARCH; COMPARATIVE STUDY; FEMALE; FENFLURAMINE (therapeutic use); GLUCOSE TOLERANCE TEST; HUMAN; MALE; MIDDLE AGE; OBESITY IN DIABETES (drug therapy); PHENFORMIN (therapeutic use).

### Khaletskii ME

[NECESSITY OF ACTIVE TREATMENT OF LATENT FORMS OF DIABETES MELLITUS IN PATIENTS WITH ARTERIOSCLEROSIS] Khaletskii ME *Ter Arkh* 48: 116-20, 1976 (Rus) DL/76NOV253

ADOLESCENCE; ADULT; CORONARY DISEASE (complications, diet therapy); DIABETES MELLITUS (complications, drug therapy); ENGLISH ABSTRACT; HUMAN; MALE; MIDDLE AGE; TOLBUTAMIDE (therapeutic use).

### Khanna SS

EFFECT OF GLUCAGON ON THE PRINCIPAL ISLETS OF A FRESH-WATER FISH, CHANNA

PUNCTATUS (BLOCH). Gill TS, Khanna SS *Acta Anat (Basel)* 95: 93-100, 1976 (Eng) DL/76NOV291

### Khettry J

EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99MTC PERTECHNETATE IN MICE. Khettry J, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

ANIMAL EXPERIMENTS (analysis); BETAZOALE (pharmacodynamics); FEMALE; GASTRIC MUCOSA (metabolism); GLUCAGON (pharmacodynamics); MALE; MICE; PENTAGASTRIN (pharmacodynamics); PERCHLORIC ACIDS (pharmacodynamics); SCINTILLATION COUNTERS; SECRETIN (pharmacodynamics); STOMACH (metabolism); TECHNETIUM (administration & dosage, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Khillar M

[CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE] Khillar M, Uong DS *Biochimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

ADENINE NUCLEOTIDES (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE DIPHOSPHATE (pharmacodynamics); ADENOSINE MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; ENGLISH ABSTRACT; GLUTAMATE DEHYDROGENASE (metabolism); GUANINE NUCLEOTIDES (pharmacodynamics); KETOGLUTARIC ACIDS (pharmacodynamics); MITOCHONDRIA, LIVER (enzymology, drug effects); PHOSPHATES (pharmacodynamics); PHOSPHATES, INORGANIC (pharmacodynamics); RATS.

### Khoo JC

CA2+ DEPENDENT ACTIVATION OF PHOSPHORYLASE BY PHOSPHORYLASE KINASE IN ADIPOSE TISSUE. Khoo JC *Biochim Biophys Acta* 422: 87-97, 23 Jan 76 (Eng) \*DL/76NOV433

ADENOSINE TRIPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (enzymology); ANIMAL EXPERIMENTS; CALCIUM (pharmacodynamics); CHICKENS; CYTOSOL (enzymology, drug effects); ENZYME ACTIVATION (drug effects); EGTA (pharmacodynamics); FEMALE; GLYCOCEN PHOSPHORYLASE (metabolism); KINETICS; MAGNESIUM (pharmacodynamics); PHOSPHORYLASE KINASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Kiehn TG

BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN. Kiehn TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

ADULT; BLOOD SUGAR (metabolism); BODY WEIGHT; CHOLESTEROL (blood); DIABETES MELLITUS (diet therapy, drug therapy); DIETARY CARBOHYDRATES (analysis); DOSE-RESPONSE RELATIONSHIP, DRUG; HUMAN; HYPERGLYCEMIA (diet therapy); INSULIN (therapeutic use); MALE; MIDDLE AGE; OLIGOSACCHARIDES (analysis); POLYSACCHARIDES (analysis, therapeutic use); SULFONYLUREA COMPOUNDS (therapeutic use); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

### Kikis D

[FUNDAMENTALS OF PARENTERAL FEEDING IN INTERNAL DISEASES] Trubenstein G, Kikis D *Infusionstherapie* 2: 450-5, Dec 75 (Ger) \*DL/76NOV655

### Kim GE

LOWER-LIMB AMPUTATION FOR OCCLUSIVE VASCULAR DISEASE. Kim GE, Imparato AM, Chu DS, Davis SW *Am Surg* 42: 598-601, Aug 76 (Eng) DL/76NOV320

ADULT; AGED; AMPUTATION STUMPS; AMPUTATION; ARTERIAL OCCLUSIVE DISEASES (rehabilitation, surgery); DIABETIC ANGIOPATHIES (surgery); FEMALE; HUMAN; KNEE; LEG (blood supply, surgery); MALE; MIDDLE AGE; WOUND HEALING.

### Kimmel JR

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

AMINO ACID SEQUENCE; AMINO ACIDS (analysis); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL ASSAY; CATTLE; COMPARATIVE STUDY; INSULIN (analysis, isolation & purification, physiology); LIZARDS; OXIDATION-REDUCTION; PANCREAS (analysis); PEPTIDE FRAGMENTS (analysis); SNAKES (metabolism); SPECIES SPECIFICITY; TRYPSIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Kimura N

ACTIVATION BY GTP OF LIVER ADENYLYL CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP. Kimura N, Nakano K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

ADENOSINE TRIPHOSPHATE (pharmacodynamics); ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); CELL MEMBRANE (drug effects, enzymology); ENZYME ACTIVATION (drug effects); FLUORIDES (pharmacodynamics); GLUCAGON (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); KINETICS; LIVER (drug effects, enzymology); RATS.

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

### King J

LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS. Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorges NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) \*DL/76NOV463

### Kinne R

ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE. P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Saffran E, Le Maguen J *In Colloque Européen de physiologie renale, Paris, INSERM, 1974. WJ 300 E89c 1974.* (Eng) \*DL/76NOV401

CELL MEMBRANE (metabolism); GLUCOSE (metabolism); KIDNEY TUBULES, PROXIMAL (metabolism); MONOGRAPH; PHLORHIZIN (pharmacodynamics); SODIUM (pharmacodynamics); TROMETHAMINE (pharmacodynamics).

## Diabetes Literature—Author Index

Kofanova NN

**MOLECULAR BASIS OF TRANSEPITHELIAL TRANSPORT IN THE PROXIMAL TUBULE OF RAT KIDNEY: PROPERTIES OF THE LUMINAL AND THE CONTRALUMINAL CELL MEMBRANE.** Kinne R, Baumann K *Fortschr Zool* 23: 261-78, 1975 (Eng) [78] \*DL/76NOV496

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATASE (metabolism); ALKALINE PHOSPHATASE (analysis); ANIMAL EXPERIMENTS; BINDING SITES; BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CALCIUM (metabolism); CELL FRACTIONATION; CELL MEMBRANE (metabolism, enzymology); DIBUTYRYL CYCLIC AMP (pharmacodynamics); EPITHELIAL CELLS (metabolism); GLUCOSE (metabolism); KIDNEY TUBULES, PROXIMAL (metabolism, enzymology); MEMBRANE POTENTIALS; MODELS, BIOLOGICAL; PARATHYROID HORMONE (pharmacodynamics); PHLORHZIN (pharmacodynamics); PROTEIN KINASE; PROTEINS (analysis); RATS; REVIEW; SODIUM (pharmacodynamics, metabolism); STRUCTURE-ACTIVITY RELATIONSHIP.**

**Kinne-Saffran E**

**ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE.** P. 171. Kinne R, Murer H, Sach G, Thees E, Kinne-Saffran E, Le Magnen J *Int Colloque Europeen de physiologie renale. Paris, INSERM, 1974. WJ 300 E89c 1974.* (Eng) \*DL/76NOV401

**Kinsella JE**

**COMPREHENSIVE EVALUATION OF FATTY ACIDS IN FOODS. V. UNHYDROGENATED FATS AND OILS.** Brignoli CA, Kinsella JE, Weirrauch JL *J Am Diet Assoc* 68: 224-9, Mar 76 (Eng) \*DL/76NOV530

**Kirchgessner M**

**EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILK COWS.** 17. ZINC METABOLISM IN THE ANIMAL ORGANISM

Kirchgessner M, Roth HP, Schwarz WA *Z Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

**ANIMAL EXPERIMENTS (analysis); CATTLE; COMPARATIVE STUDY; ENGLISH ABSTRACT; FEMALE; INSULIN (blood); ZINC (deficiency, metabolism).**

**Kirk CJ**

**FATTY ACID SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS.** Kirk CJ, Verrinder TR, Hems DA *Biochem J* 156: 593-602, 15 Jun 76 (Eng) DL/76NOV371

**ADRENAL GLANDS (physiology); ADRENALECTOMY; ANIMAL EXPERIMENTS (analysis); CHOLESTEROL (biosynthesis); DIABETES MELLITUS (metabolism); FATTY ACIDS (biosynthesis); HYDROCORTISONE (pharmacodynamics); INSULIN (deficiency); LIVER (drug effects, metabolism); MALE; OLEIC ACIDS (metabolism); PHOSPHOLIPIDS (metabolism); RATS.**

**Kirshner HS**

**CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA.** Kirshner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) \*DL/76NOV633

**ANIMAL EXPERIMENTS; ANOXIA (cerebrospinal fluid, physiopathology, blood); BLOOD PRESSURE; BLOOD SUGAR (metabolism); CEREBRAL CORTEX (metabolism); HEART RATE; HEART (physiopathology); MAGNESIUM (blood, cerebrospinal fluid); MONKEYS; OXYGEN**

(blood); POTASSIUM (cerebrospinal fluid, blood); RHESUS MONKEYS; SUBARACHNOID SPACE (metabolism); TIME FACTORS; WATER-ELECTROLYTE BALANCE.

**Kisseeah AH**

**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kisseeah AH, Clarke P, Vydelingum N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

**TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY.** Kisseeah AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

**ADULT; AGED; ANTILIPIDEMIC AGENTS (administration & dosage, therapeutic use); APOPROTEINS (blood); CHOLESTEROL (blood); DOSE-RESPONSE RELATIONSHIP, DRUG; FATTY ACIDS, NONESTERIFIED (blood); GLUCOSE TOLERANCE TEST; HUMAN; HYPERLIPIDEMIA (blood, drug therapy); KINETICS; LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; METABOLIC CLEARANCE RATE; MIDDLE AGE; TRIGLYCERIDES (blood); VALERATES (therapeutic use).**

**Kitabatake A**

**OPTIMAL CONTROL OF MEDICAL TREATMENT: ADAPTIVE CONTROL OF BLOOD GLUCOSE LEVEL IN DIABETIC COMA.** Inoue M, Kajiyama F, Inada H, Kitabatake A, Hori M *Comput Biomed Res* 9: 217-28, Jun 76 (Eng) DL/76NOV34

**Kitabuchi AE**

**INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY.** Burghen G, Duckworth WC, Kitabuchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

**Kitagawa T**

**ENZYME COUPLED IMMUNOASSAY OF INSULIN USING A NOVEL COUPLING REAGENT.** Kitagawa T, Aikawa T *J Biochem (Tokyo)* 79: 233-6, Jan 76 (Eng) DL/76NOV86

**BINDING, COMPETITIVE; GALACTOSIDASES (metabolism); IMMUNOASSAY; INDICATORS AND REAGENTS; INSULIN ANTIBODIES; INSULIN (analysis); MALEIMIDES; PROTEIN BINDING; SUCCINIMIDES.**

**Kjekshus JK**

**EFFECTS OF LIPOLYTIC AND INOTROPIC STIMULATION ON MYOCARDIAL ISCHEMIC INJURY.** Kjekshus JK *Acta Med Scand [Suppl]* 35-42, 1976 (Eng) \*DL/76NOV614

**ANIMAL EXPERIMENTS; CARDIAC OUTPUT (drug effects); CATECHOLAMINES (therapeutic use, pharmacodynamics, metabolism); CORONARY DISEASE (drug therapy, metabolism); DOGS; FATTY ACIDS, NONESTERIFIED (metabolism); HUMAN; ISOPROTERENOL (therapeutic use, pharmacodynamics); MYOCARDIAL INFARCT (drug therapy, metabolism); MYOCARDIUM (metabolism); NICOTINYL ALCOHOL (therapeutic use, pharmacodynamics); OXYGEN CONSUMPTION (drug effects); PYRIDINES (therapeutic use).**

**Kjellisen D**

**A REASSESSMENT OF THE PROGNOSIS OF DIABETIC PATIENTS TREATED BY CHRONIC HEMODIALYSIS (CHD).** Comty CM, Kjellisen D, Shapiro FL *Trans Am Soc Artif Intern Organs* 22: 404-11, 1976 (Eng) DL/76NOV264

**Kleemann W**

**INTERACTIONS OF PROTEINS AND CHOLESTEROL WITH LIPIDS IN BILAYER MEMBRANES.** Kleemann W, McConnell HM *Biochim Biophys Acta* 419: 206-22, 21 Jan 76 (Eng) \*DL/76NOV425

**ADENOSINE TRIPHOSPHATASE; ANIMAL EXPERIMENTS; BINDING SITES; CHOLESTEROL; ELECTRON SPIN RESONANCE; FREEZE-FRACTURING; LIPIDS; MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; PROTEIN BINDING; PROTEIN CONFORMATION; RABBITS; SARCOPLASMIC RETICULUM (enzymology); TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.**

**Kline KA**

**VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT.** Schmid-Schönbein H, Kline KA, Volger E *Biol Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

**Knowles SE**

**SELECTIVE CONTROL OF THE DEGRADATION OF NORMAL AND ABERRANT PROTEINS IN REUBER H35 HEPATOMA CELLS.** Knowles SE, Ballard FJ *Biochem J* 156: 609-17, 15 Jun 76 (Eng) DL/76NOV372

**AMINO ACIDS (pharmacodynamics); ARGinine (metabolism); CANAVANINE (metabolism); CELLS, CULTURED; CYCLOHEXIMIDE (pharmacodynamics); FETAL BLOOD; HEPATOMA (metabolism); INSULIN (pharmacodynamics); LEUCINE (metabolism); LEUPEPTINS (pharmacodynamics); LIVER NEOPLASMS (metabolism); NEOPLASM PROTEINS (metabolism); NEOPLASMS, EXPERIMENTAL (metabolism); PEPSTATINS (pharmacodynamics); PHENYL METHYL SULFONYL FLUORIDE (pharmacodynamics); PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PUROMYCIN (pharmacodynamics).**

**Kobayashi K**

**REGULATION OF MYOCARDIAL ENERGY METABOLISM.** Illingworth JA, Ford WC, Kobayashi K, Williamson JR *Recent Adv Stud Cardiac Struct Metab* 8: 271-90, 1975 (Eng) \*DL/76NOV575

**EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM.** Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

**Koch CD**

**[AMYLASE DETERMINATION IN URINE]** Lorentz K, Koch CD *Dtsch Med Wochenschr* 101: 1261-2, 20 Aug 76 (Ger) DL/76NOV49

**Koenig H**

**AUTOPHAGY-RELATED CHANGES OF ARYL-SULPHATASES A AND B IN RAT LIVER LYSOSOMES.** Sanghavi P, Koenig H *Biochem J* 155: 725-8, 1 Jun 76 (Eng) DL/76NOV360

**Kofanova NN**

**[THE EFFECT OF COLD CARDIOPLEGIA ON MYOCARDIAL METABOLISM]** Vainer EN, Kofanova NN *Biol Nauki* 43-7, 1975 (Rus) \*DL/76NOV442

## Diabetes Literature—Author Index

### Kogure T

#### Kogure T

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

#### Koldaeva AP

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Klin* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

#### Kolesnikov RN

[STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF STENOSIS DUCTI] Orlenko MA, Kolesnikov RN *Stomatologija (Mosk)* 54: 85-6, May-Jun 75 (Rus) \*DL/76NOV593

#### Koletsky S

EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBESE RATS. Koletsky S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569 ANIMAL EXPERIMENTS; BODY WEIGHT; CHOLESTEROL (blood); DIET; REDUCING; FEMALE; HYPERTENSION (complications); LONGEVITY; MALE; OBESITY (physiopathology, familial & genetic, diet therapy); PROTEINURIA (diet therapy); RATS; TRIGLYCERIDES (blood).

#### Komatsu K

NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS. Goto Y, Toyota T, Masuda M, Komatsu K, Kuriki A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

#### Kondo H

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzak C, Geck P, Pfeiffer B *Inn Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395

#### Korochkin IM

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologija* 15: 91-100, Sep 75 (Rus) DL/76NOV152

#### Koroleva MIA

[THE MECHANISM OF CARBON ISOTOPE FRACTIONATION IN THE METABOLIC PROCESS] Ivlev AA, Koroleva MIA, Kaloshin AG *Mol Biol (Mosk)* 9: 435-42, May-Jun 75 (Rus) \*DL/76NOV556

#### Kostyo JL

CONFERENCE ON THE STRUCTURE-FUNCTION RELATIONSHIPS OF PITUITARY GROWTH HORMONE: A REPORT. Kostyo JL, Wilhelm AF *Metabolism* 25: 105-24, Jan 76 (Eng) \*DL/76NOV666

AMINO ACIDS (analysis); ANIMAL EXPERIMENTS; BINDING SITES; CALCIUM (metabolism); DOSE-RESPONSE RELATIONSHIP; DRUG; FIBRINOLYSIN; GLUCOSE (metabolism); HUMAN;

MOLECULAR WEIGHT; NITROGEN (metabolism); ORNITHINE DECARBOXYLASE (metabolism); PEPSIN; PEPTIDE FRAGMENTS (chemical synthesis, metabolism); PHOSPHORUS (metabolism); PITUITARY GLAND (secretion); SOMATOTROPIN (physiology, immunology, deficiency); STRUCTURE-ACTIVITY RELATIONSHIP; TRYPSIN.

#### Kosuga T

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

#### Kotarov M

ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION. PP. 43-52. Vassileva-Popova JG, Alexandrov A, Kotarov M *Inn Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV387

#### Kotliarov EV

[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES] Tareev EM, Kotliarov EV, Poliantseva LR, Tatsivskii VA, Nevraeva OG *Klin Med (Mosk)* 53: 25-29, Oct 75 (Rus) DL/76NOV158

#### Kotyk A

MODES OF COUPLING OF ENERGY WITH TRANSPORT. PP. 85-97. Kotyk A *Inn Gardos G, Szasz I, ed. Biomembranes 0 structure and function*. Amsterdam, North-Holland, 1973. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV405 AMINO ACIDS (metabolism); AMINOBUTYRIC ACID (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism, drug effects); DINITROPHENOLS (pharmacodynamics); ENERGY TRANSFER; KINETICS; MATHEMATICS; MODELS; BIOLOGICAL; MONOGRAPH; PHILIPPINES; RHODOTORULA (metabolism); SACCHAROMYCES CEREVISIAE (metabolism); XYLOSE (metabolism).

#### Koziet J

[USE OF ETHANOL NATURALLY ENRICHED IN CARBON 13 FOR METABOLIC STUDIES] Bricot J, Le Bourhis B, Koziet J *C R Soc Biol (Paris)* 169: 904-11, 1975 (Fre) \*DL/76NOV452

#### Kozlowski W

[INSULIN AND GROWTH HORMONE SECRETION IN MYOCARDIAL INFARCT] Kozlowski W *Pol Arch Med Wewn* 56: 45-54, Jul 76 (Pol) DL/76NOV207 ACUTE DISEASE; ADULT; AGED; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood); SOMATOTROPIN (blood); TIME FACTORS.

#### Kraeas E

EFFECTS OF SELECTIVE GASTRIC VAGOTOMY AND PYLOROPLASTY ON ORAL AND INTRAVENOUS GLUCOSE TOLERANCE AND INSULIN SECRETION. Bittner R, Beger HG, Kraas E, Gogler H *Arch Surg* 111: 850-3, Aug 76 (Eng) DL/76NOV336

#### Kraft JR

GLUCOSE/INSULIN TOLERANCE. A ROUTINE CLINICAL LABORATORY TOOL ENHANCING DIABETIC DETECTION. PP. 91-106. Kraft JR *Inn Hunter OB Jr, ed. Radioassay of clinical concepts*. Skokie, Ill., Searle, 1974. QY 250 S9892r 1974. (Eng) DL/76NOV124

BLOOD SUGAR (analysis); DIABETES MELLITUS (blood, diagnosis); EVALUATION STUDIES; FASTING; FEMALE; GLUCOSE TOLERANCE TEST (methods); HUMAN; INSULIN (diagnostic use); MALE; MONOGRAPH (mortality); OBESITY; SEX FACTORS; TIME FACTORS.

#### Kramer JK

EFFECT OF COLD STRESS ON RAPESEED OIL FED RATS. Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

#### Kramer KJ

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETORY SYSTEM. Tager HS, Markeze J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

#### Krasnava AF

[THE RELATIONSHIP BETWEEN PRE-EXERCITIONAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY] Krasnava AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol Z SSSR* 61: 530-6, Apr 75 (Rus) \*DL/76NOV489 ADENOSINE TRIPHOSPHATE (metabolism); ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); ENERGY METABOLISM; ENGLISH ABSTRACT; EXERTION; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; LACTATES (blood); MALE; MUSCLES (metabolism); PYRUVATES (blood); SPORT MEDICINE.

#### Kravit W

LABILE AGGREGATION STIMULATING SUBSTANCE, FREE FATTY ACIDS, AND PLATELET AGGREGATION. Gerard JM, White JG, Kravit W *J Lab Clin Med* 87: 73-82, Jan 76 (Eng) \*DL/76NOV660

#### Kriz M

MEASUREMENTS OF PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION BY RAT PITUITARY CELLS IN CULTURE. Gautvik KM, Kriz M *Endocrinology* 98: 344-51, Feb 76 (Eng) \*DL/76NOV471

EFFECTS OF PROSTAGLANDINS ON PROLACTIN AND GROWTH HORMONE SYNTHESIS AND SECRETION IN CULTURED RAT PITUITARY CELLS. Gautvik KM, Kriz M *Endocrinology* 98: 352-8, Feb 76 (Eng) \*DL/76NOV472

#### Krokowski E

[LETTER: OSTEOPOROSIS-CAUSED BY DECREASED BLOOD CIRCULATION IN THE BONES] Krokowski E, Fricke M *Z Orthop* 114: 430-1, Jun 76 (Ger) DL/76NOV278 AGE FACTORS; BONE AND BONES (blood supply); DIABETES MELLITUS (complications); HUMAN; ISCHEMIA (complications, etiology); OSTEOPOROSIS (complications, etiology); REGIONAL BLOOD FLOW; SEX FACTORS.

#### Krotkiewski M

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res* 8: 245-6, May 76 (Eng) DL/76NOV79

ADIPOSE TISSUE (drug effects, enzymology); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); DEXAMETHASONE (pharmacodynamics); INSULIN (blood); LIPOPROTEIN LIPASE (metabolism), MALE; RATS.

THE EFFECTS OF ESTROGENS ON REGIONAL ADIPOSE TISSUE CELLULARITY IN THE RAT. Krotkiewski M *Acta Physiol Scand* 96: 128-33, Jan 76 (Eng) \*DL/76NOV608

## Diabetes Literature—Author Index

Larue J

ADIPOSE TISSUE (drug effects, cytology); ANIMAL EXPERIMENTS; BODY WEIGHT (drug effects); CELL COUNT; DOSE-RESPONSE RELATIONSHIP, DRUG; ESTRADIOL (pharmacodynamics); ESTROGENS (administration & dosage); FASTING; FEMALE; RATS.

Krupchitskai KI

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant Iu, Teslenko VG, Lebedev SV, Krupchitskai KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

Kubin D

[ISOLATION AND PROPERTIES OF THE CELL ENVELOPE OF THE GREEN ALGA CHLORELLA FUSCA (AUTHORS TRANSL)] Hulsen W, Kubin D *Z Naturforsch [C]* 30: 684-6, Sep-Oct 75 (Ger) \*DL/76NOV599

Kuhn E

[THE RELATION BETWEEN THE DOSAGE OF GLUCAGON AND THE RESPONSE OF SOME LIPID PARAMETERS AND GLYCEMIA IN HEALTHY INDIVIDUALS (AUTHORS TRANSL)] Andel M, Brodn V, Kuhn E *Cas Lek Cesk* 115: 764-6, 25 Jun 76 (Cze) DL/76NOV28

Kulesza S

[MAGNESIUM IN BIOLOGY AND MEDICINE] Opienska-Blauth J, Stankiewicz Z, Kulesza S *Postepy Hig Med Dosw* 29: 665-717, Nov-Dec 75 (Pol) [118] \*DL/76NOV563

Kulin HE

LETTER: DIAZOXIDE-DIPHENYLHYDANTOIN INTERACTION. Petro DJ, Vannucci RC, Kulin HE *J Pediatr* 89: 331-2, Aug 76 (Eng) DL/76NOV139

Kunita H

ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION. Hata S, Kunita H, Okamoto M *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

Kuriki A

NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS. Goto Y, Toyota T, Masuda M, Komatsu K, Kuriki A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

Kuriyama K

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. PP 335-45. Kuriyama K, Nakagawa K *Infl Huxtable R, Barbeau A, ed. Taurine. New York, Raven Press, 1975 W3/IN923E 1975t. (Eng)* \*DL/76NOV639 ADRENAL GLANDS (metabolism, enzymology); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BRAIN STEM (metabolism); CATECHOLAMINES (secretion); CHROMAFFIN SYSTEM (metabolism); COLD; CORTICOSTERONE (blood); DOPAMINE; BETA HYDROXYLASE (metabolism); EPINEPHRINE (metabolism); HEART ATRIUM (metabolism); HYPOPHYSECTOMY; IMMOBILIZATION; MALE; MONOGRAPH; PITUITARY GLAND (physiology); RATS; STRESS (physiopathology); TAURINE (pharmacodynamics); TYROSINE HYDROXYLASE (metabolism).

Kushakovskii MS

EFFECT OF ANTI-ARRHYTHMIA AGENTS ON THE IMPULSE CONDUCTION TO THE HEART] Kushakovskii MS *Kardiologiya* 15: 137-45, Sep 75 (Rus) [100] DL/76NOV151

ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); ANTI-ARRHYTHMIA AGENTS (administration & dosage, pharmacodynamics, therapeutic use); ARRHYTHMIA (drug therapy); ATRIOVENTRICULAR NODE (drug effects); BUNDLE OF HIS (drug effects); CARDIAC GLYCOSIDES (pharmacodynamics); COMPARATIVE STUDY; DIPHENYLHYDANTOIN (pharmacodynamics); DIURETICS (pharmacodynamics); DRUG EVALUATION; GLUCAGON (pharmacodynamics); GLUCOCORTICOIDS (pharmacodynamics); HEART CONDUCTION SYSTEM (drug effects); HUMAN; ISOPROTERENOL (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); POTASSIUM (pharmacodynamics); REVIEW.

Kuusisto A

[CLINICAL COMPARISON BETWEEN GLIBURNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOBLE-BLIND TRIAL] Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Sagid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

Laborde-Berranger A

[THE ARGON LASER AND DIABETIC RETINOPATHY] Massin M, Laborde-Berranger A *Arch Ophthalmol (Paris)* 35: 735-46, Oct 75 (Fre) DL/76NOV341

Labrie F

CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE. Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferland L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

Lachance R

CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE. Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

Laffargue P

[INSULINOMAS IN CHILDREN. HISTOLOGIC AND ULTRASTRUCTURAL STUDY. (APROPOS OF 2 CASES)] Casanova P, Guidon J, Laffargue P *Ann Anat Pathol (Paris)* 20: 489-503, Nov-Dec 75 (Fre) DL/76NOV317

Lambelin G

POTENTIAL ANTI-LIPOLYTIC ACTIVITY OF SULOCTIDIL. Roncucci R, Robit J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

Lambert AE

THE REGULATION OF INSULIN SECRETION. Lambert AE *Rev Physiol Biochem Pharmacol* 75: 97-159, 1976 (Eng) [814] DL/76NOV235 ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); AMINO ACIDS (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ANTIMETABOLITES; BIOGENIC AMINES (pharmacodynamics); CELL MEMBRANE

(physiology); DIPHENYLHYDANTOIN (pharmacodynamics); ELECTRIC STIMULATION; ENERGY METABOLISM; GLUCOSE (metabolism, pharmacodynamics); GLYCOLYSIS (drug effects); HORMONES (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (cytology, metabolism); METALS (pharmacodynamics); NEURONS (physiology); OXYGEN CONSUMPTION; PANCREAS (ultrastructure); PHENOTHIAZINES (pharmacodynamics); PHOSPHODIESTERASES (metabolism); REVIEW: SULFHYDRYL REAGENTS (pharmacodynamics); TIME FACTORS.

Lamberts SW

DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME. Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525

Lamers JM

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biervliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* i: 594, 13 Mar 76 (Eng) \*DL/76NOV545

Landenson JH

OBSEVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN. Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

Landgraf M

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

Langslow DR

CHANGES IN PLASMA GLUCOSE AND LIVER GLYCOGEN FOLLOWING THE ADMINISTRATION OF GLUCONEOGENIC PRECURSORS TO THE STARVING FOWL. Davison TF, Langslow DR *Comp Biochem Physiol* A 52: 645-9, 1 Dec 75 (Eng) \*DL/76NOV649

Lapinski H

HLA ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS] Miroze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Naou Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

Largin EE

PERFUSED FAT CELLS-KINETIC ANALYSIS OF EPINEPHRINE-STIMULATED LIPOLYSIS. Allen DO, Katocs AS Jr, Largin EE, Ashmore J *Biochem Pharmacol* 25: 103-5, Jan 76 (Eng) \*DL/76NOV638

Larrodera L

ENTERIC HORMONES AND INSULIN RELEASE IN ADDISONS DISEASE. Hawkins-Carranza FG, Larrodera L, Schuller A *Horm Metab Res* 8: 237-8, May 76 (Eng) DL/76NOV73

Larue J

[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT] Aumailley M, Razaka G, Larue J, Bricaud H *C R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) \*DL/76NOV449

## Diabetes Literature—Author Index

Larsen LO

Larsen LO

BLOOD GLUCOSE LEVELS IN INTACT AND HYPOPHYSECTOMIZED RIVER LAMPREYS (LAMPETRA FLUVIATILIS L.) TREATED WITH INSULIN, STRESS OR GLUCOSE, BEFORE AND DURING THE PERIOD OF SEXUAL MATURATION. Larsen LO *Gen Comp Endocrinol* 29: May 76 (Eng) DL/76NOV64

ANESTHESIA; ANIMAL EXPERIMENTS (analysis); BLOOD SPECIMEN COLLECTION; BLOOD SUGAR; COMPARATIVE STUDY; CYCLOSTOMES (blood); DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCOSE (pharmacodynamics); HYPOPHYSECTOMY; INSULIN (pharmacodynamics); LAMPREYS (blood, physiology); MALE; PITUITARY GLAND (physiology); SEX MATURATION; STRESS; TEMPERATURE.

Larsson O

[DIABETIC NEPHROPATHY AND KIDNEY TRANSPLANTATION] Bengtsson U, Brynger H, Ewald J, Gelin LE, Larsson O *Lakartidningen* 73: 2545-8, 21 Jul 76 (Swe) DL/76NOV164

Larsson-Cohn U

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE. Tankeyoon M, Dusitit N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

Lasierro J

[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL NOCTURNAL HAE莫MOGLLOBINURIA (AUTHORS TRANSL)] Angulo P, Fernandez J, Lasierro J, Lopez-Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

Laski B

SEVERE SALT POISONING IN AN INFANT. Saunders N, Balf JW, Laski B *J Pediatr* 88: 258-61, Feb 76 (Eng) DL/76NOV534

Lassen NA

FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE. Palm T, Nielsen SL, Lassen NA, Sander EH *Biol Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

Latorre A

[TORSADES DE POINTES (CASE REPORTS)] Calabrese P, Franchini G, Di Biase M, Latorre A, Lenti ML, Antonelli G *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

Lavina II

[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> & ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov Iak, Gainutdinov MKh, Salikhov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) DL/76NOV465

Laxer S

PARTIAL CHARACTERIZATION OF A THERMOPHILIC ACTINOMYCETE RENNIN. Laxer S, Pinsky A, Bartoov B *Experientia* 67-75, 1976 (Eng) DL/76NOV55

ACTINOMYCETES (enzymology); AMINO ACIDS (analysis); BLOOD COAGULATION (drug effects); CASEIN (metabolism); CULTURE MEDIA; INSULIN (metabolism); MILK; MOLECULAR WEIGHT; RENNIN (analysis, isolation & purification, metabolism).

Lazarus NR

THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON. O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA). O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

Le Bourhis B

[USE OF ETHANOL NATURALLY ENRICHED IN CARBON 13 FOR METABOLIC STUDIES] Bricout J, Le Bourhis B, Koziot J *C R Soc Biol (Paris)* 169: 904-11, 1975 (Fre) DL/76NOV452

Le Magnen J

INTERACTIONS OF GLUCOSTATIC AND LIPOSTATIC MECHANISMS IN THE REGULATORY CONTROL OF FEEDING. PP. 89-101. Le Magnen J *Im Novin D et al.*, ed. Hunger basic mechanisms and clinical implications. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) DL/76NOV400

ANIMAL EXPERIMENTS; DIURNAL RHYTHM; EATING; ENERGY METABOLISM; FEEDING PATTERNS; GLUCOSE (metabolism); HUNGER (physiology); LIPIDS (metabolism); MONOGRAPH; RATS.

Lebedev SV

[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE] Livergant IuE, Teslenko VG, Lebedev SV, Krupchitskaya KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

Leclerc L

EFFECT OF FASTING ON GLUCOSE RECYCLING IN RATS. Freminet A, Poyart C, Leclerc L, Gentil M *FEBS Lett* 61: 294-7, 15 Jan 76 (Eng) DL/76NOV487

Leclercq R

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, L'Hermitte M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

Leclercq-Meyer V

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, L'Hermitte M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

Leclercq C

TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION. Randall GC, Leclercq C *Biol Neonate* 28: 74-82, 1976 (Eng) DL/76NOV445

Lefebvre PJ

PLASMA GLUCAGON AFTER KIDNEY EXCLUSION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN EVISCERATED DOGS. Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV174

ANIMAL EXPERIMENTS (analysis); COLECTOMY; COMPARATIVE STUDY; DOGS; FEMALE; GASTRECTOMY; GASTROINTESTINAL SYSTEM (surgery); GLUCAGON (blood); KIDNEY (blood supply); MALE; PANCREATECTOMY; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SPLENECTOMY.

Lehner ND

ATHEROSCLEROSIS IN OLD WORLD MONKEYS. Clarkson TB, Hamm TE, Bullock BC, Lehner ND *Primates Med* 9: 66-89, 1976 (Eng) DL/76NOV676

Lehninger AL

STOICHIOMETRY OF H<sub>2</sub> EJECTION DURING RESPIRATION-DEPENDENT ACCUMULATION OF CA<sup>2+</sup> BY RAT LIVER MITOCHONDRIA. Brand MD, Chen CH, Lehninger AL *J Biol Chem* 251: 968-74, 25 Feb 76 (Eng) DL/76NOV518

Lehy T

[IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA] Hollande E, Giron B, Lehy T, Accary JP, Roze C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

Leikin SL

INSULIN BINDING OF ACUTE LYMPHOCYTIC LEUKEMIA CELLS. Esber EC, Buell DN, Leikin SL *Blood* 48: 33-9, Jul 76 (Eng) DL/76NOV13

Lenaz G

LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES. Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) DL/76NOV629

ALCOHOLS; ALCOHOLS, BUTYL; ANILINO NAPHTHALESULFONATES; ANIMAL EXPERIMENTS; BINDING SITES; CATTLE; ELECTRON SPIN RESONANCE; KINETICS; LIPIDS (metabolism); MEMBRANES (metabolism, ultrastructure); MITOCHONDRIA, MUSCLE (metabolism, ultrastructure); MUSCLE PROTEINS (metabolism); MYOCARDIUM; PROTEIN BINDING; SPECTROMETRY; FLUORESCENCE; SPIN LABELS.

Lenkova RI

[THE RELATIONSHIP BETWEEN PRE-EXERCITIONAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY] Krasnava AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol Z SSSR* 61: 530-6, Apr 75 (Rus) DL/76NOV489

Lenti ML

[TORSADES DE POINTES (CASE REPORTS)] Calabrese P, Franchini G, Di Biase M, Latorre A, Lenti ML, Antonelli G *Boll Soc Ital Cardiol* 20: 421-9, 1975 (Ita) DL/76NOV5

Lenza G

[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL)] Violante A, Nardoni C, Lenza G *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

Lenzen S

THYROID FUNCTION AND INSULIN SECRETION FROM THE PERFUSED PANCREAS IN THE RAT. Lenzen S, Joost HG, Hasselblatt A *Endocrinology* 99: 125-9, Jul 76 (Eng) DL/76NOV51

ANIMAL EXPERIMENTS (analysis); HYPERTHYROIDISM (metabolism); HYPOTHYROIDISM (metabolism); INSULIN (secretion); MALE; PANCREAS (drug effects); PERFUSION; PROPYLTHIOURACIL (pharmacodynamics); RATS; THYROID GLAND (physiology); THYROID HORMONES (pharmacodynamics); THYROIDECTOMY; THYROXINE (pharmacodynamics); TRIIODOTHYRONINE (pharmacodynamics).

## Diabetes Literature—Author Index

Liakhovich VV

### Leon A

[INCIDENCE OF CORONARY MACROANGIOPATHY IN CLINICALLY MANIFEST DIABETES MELLITUS] Leon A, Mincu I *Rev Med Intern [Med Intern]* 28: 41-8, Jan-Feb 76 (Rum) DL/76NOV230  
ADULT; AGE FACTORS; AGED; CORONARY DISEASE (etiology); DIABETIC ANGIOPATHIES (diagnosis); ELECTROCARDIOGRAPHY; ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; SEX FACTORS.  
EFFECT OF POLAR LIPIDS ON CEREBRAL CONTENT OF FREE GLUCOSE IN MICE. Bruni A, Leon A, Boarato E *Adv Exp Med Biol* 72: 271-83, 1976 (Eng) DL/76NOV302

### Lernmark A

CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhlike H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); CELL MEMBRANE (metabolism; ultrastructure); GLUCAGON (biosynthesis); GLUCOSE TOLERANCE TEST; HORMONES (biosynthesis); INSULIN (biosynthesis; secretion); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); PEPTIDES (biosynthesis); PLANT AGGLUTININS (metabolism); PROINSULIN (metabolism); RATS; REVIEW; RIBOSOMES (metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In: Reich E, et al., ed. Proteases and biological control. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975, W3 C162N v.2 1975.* (Eng) [104] DL/76NOV129

### Lesch M

MECHANISM OF THE INHIBITION OF MYOCARDIAL PROTEIN SYNTHESIS DURING OXYGEN DEPRIVATION. Lesch M, Taegtmeyer H, Peterson MB, Vernick R *Am J Physiol* 230: 120-6, Jan 76 (Eng) \*DL/76NOV621

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; ANOXIA (metabolism); FATTY ACIDS, UNSATURATED (pharmacodynamics); GLUCOSE (pharmacodynamics); HEPTANOIC ACIDS (metabolism); KINETICS; LACTATES (metabolism, pharmacodynamics); MYOCARDIUM (metabolism); PALMITIC ACIDS (metabolism); PENTANOIC ACIDS (pharmacodynamics); PHENYLALANINE (metabolism); PHOSPHOCREATINE (metabolism); PROTEINS (biosynthesis); PYRUVATES (metabolism); RABBITS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Leshkevich LG

[THE RELATIONSHIP BETWEEN PRE-EXERCITIONAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY] Krasnova AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol ZN SSSR* 61: 530-6, Apr 75 (Rus) \*DL/76NOV489

### Leskiw MJ

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskiw MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

### Levey BA

BIOCHEMICAL AND CLINICAL EFFECTS OF METOLAZONE IN CONGESTIVE HEART FAILURE. Levey BA, Palmer RF *Curr Ther Res* 18: 641-51, Nov 75 (Eng) \*DL/76NOV650  
AGED; ALKALINE PHOSPHATASE (blood); BLOOD PRESSURE; BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CALCIUM (blood); CREATININE (blood); DIURETICS; SULFAMYL (therapeutic use); FEMALE; HEART FAILURE, CONGESTIVE (drug therapy, metabolism); HUMAN; MALE; METOLAZONE (therapeutic use, adverse effects); MIDDLE AGE; TIME FACTORS; URIC ACID (blood).

### Levey GS

SOMOGYI EFFECT IN PATIENT WITH HYPOPIITUITARISM. Vesely DL, Castro A, Levey GS *Arch Intern Med* 136: 936-8, Aug 76 (Eng) DL/76NOV333

### Levin RJ

EFFECTS OF FASTING AND SEMISTARVATION ON THE KINETICS OF ACTIVE AND PASSIVE SUGAR ABSORPTION ACROSS THE SMALL INTESTINE IN VIVO. Debnam ES, Levin RJ *J Physiol (Lond)* 252: 681-700, Nov 75 (Eng) \*DL/76NOV663

### Levine PR

IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY. Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 313-323, Jul 76 (Eng) DL/76NOV192

ADULT; BLOOD PLATELETS; CASE REPORT; CESAREAN SECTION; FEMALE; FETAL BLOOD; GASTRITIS (complications); HEMORRHOIDS (complications); HUMAN; INFANT, NEWBORN; MALE; PREGNANCY IN DIABETES; PREGNANCY COMPLICATIONS; HEMATOLOGIC; PREGNANCY; PURPURA, THROMBOOPENIC (blood, complications); SPLENECTOMY.

### Levinsky RJ

24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS. Levinsky RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331  
ADOLESCENCE; BODY HEIGHT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS; JUVENILE (drug therapy, urine); FEMALE; GLYCOSURIA; HUMAN; INSULIN (therapeutic use); MALE; TIME FACTORS.

### Levy J

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL? Sener A, Levy J, Malaise WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

### Lewander R

PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arne P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

### Lewis AE

ANAPHYLACTOID REACTION TO SINGLE-COMPONENT PORK INSULIN. Goldman RA, Lewis AE, Rose LI *JAMA* 236: 1148-9, 6 Sep 76 (Eng) DL/76NOV146

### Lewis BV

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

### Lewis S

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV19  
ADULT; BLOOD PRESSURE; BODY COMPOSITION; CHOLESTEROL (blood); DIET, REDUCING; ENERGY METABOLISM; EXERCISE THERAPY; FEMALE; HEART RATE; HUMAN; LIPOIDS (metabolism); LIPOPROTEINS (blood); MIDDLE AGE; OBESITY (therapy); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; WORK CAPACITY EVALUATION.

### Lewis SB

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195  
BIRTH WEIGHT; BLOOD SUGAR; CASE REPORT; CIRCADIAN RHYTHM; DELIVERY; FEMALE; GESTATIONAL AGE; GLUCOSURIA (complications); HUMAN; INFANT, NEWBORN; INSULIN (blood, therapeutic use); MALE; PREGNANCY IN DIABETES (therapy); PREGNANCY IN DIABETES (metabolism); PREGNANCY; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

### Lhermitte M

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermitte M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

### Li CC

TRANSPORT MECHANISMS IN ISOLATED PLASMA MEMBRANES. NUCLEOSIDE PROCESSING BY MEMBRANE VESICLES FROM MOUSE FIBROBLAST CELLS GROWN IN DEFINED MEDIUM. Li CC, Hochstadt J *J Biol Chem* 251: 1175-80, 25 Feb 76 (Eng) \*DL/76NOV515

ADENOSINE TRIPHOSPHATASE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CAFFINE (pharmacodynamics); CELL MEMBRANE (metabolism, drug effects); ENZYME ACTIVATION (drug effects); ETHYLMALEIMIDE (pharmacodynamics); FIBROBLASTS (metabolism); KINETICS; L CELLS (metabolism); NUCLEOTIDASES (metabolism); PHILIPPINES; POTASSIUM (pharmacodynamics); PROTEINS (metabolism); RIBONUCLEOSIDES (metabolism); SODIUM (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Li CH

HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE. Kawachi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

### Liakhovich VV

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP

## Diabetes Literature—Author Index

### Lberman IS

**HYDROLYSIS, IN MITOCHONDRIA** Dolgov AV, Ismanov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

### Lberman IS

**[GENETIC HETEROGENEITY AND MEDICO-GENETIC COUNSELING IN DIABETES MELLITUS]** Lberman IS *Klin Med (Mosk)* 53: 29-36, Oct 75 (Rus) DL/76NOV159

**ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; DIABETES MELLITUS (familial & genetic); DIABETES MELLITUS (occurrence); DIABETES MELLITUS, JUVENILE (familial & genetic); GENETIC COUNSELING; HETEROZYGOSE; HUMAN; MIDDLE AGE; PROGNOSIS; RUSSIAN FEDERATION (EUROPE).**

### Liddle GW

**CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION.** Lowder SC, Hamet P, Liddle GW *Circ Res* 38: 105-8, Feb 76 (Eng) \*DL/76NOV464

### Liedtke AJ

**RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM.** Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

**FACTORS MODIFYING ISCHEMIC ALTERATIONS OF VENTRICULAR FUNCTION AND METABOLISM IN THE INTACT WORKING SWINE HEART.** Liedtke AJ *Acta Med Scand [Suppl]* 57-64, 1976 (Eng) \*DL/76NOV615

**ANIMAL EXPERIMENTS; BLOOD PRESSURE; CORONARY CIRCULATION; CORONARY DISEASE (metabolism, physiopathology, drug therapy); DISEASE MODELS, ANIMAL; GLYCOLYSIS; HEART VENTRICLE (physiopathology); HEART (physiopathology); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PYRUVATES (therapeutic use); SWINE; TROMETHAMINE (therapeutic use).**

### Ligeti E

**CARRIER-MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA.** pp. 287-306. Fonyo A, Ligeti E, Palmieri F, Quagliariello E *In: Gards G, Szasz I, ed. Biomembranes* structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV388

### Lim KC

**DIABETES KETOALKALOSIS: A READILY MISDIAGNOSED ENTITY.** Lim KC, Walsh CH *Br Med J* 2: 19, 3 Jul 76 (Eng) DL/76NOV20

**ACIDOSIS, DIABETIC (diagnosis); ADULT; ALKALOSIS (diagnosis); CASE REPORT; DIAGNOSTIC ERRORS; FEMALE; HUMAN; KETOSIS, DIABETIC (diagnosis); MALE; MIDDLE AGE; VOMITING (etiology).**

### Lindberg IF

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

**AGE FACTORS; AGED; CLINICAL RESEARCH; COMPARATIVE STUDY; DIABETES MELLITUS (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT;**

**FEMALE; GLIBORNURIDE (therapeutic use); HUMAN; MALE; MIDDLE AGE; SULFONYLUREA COMPOUNDS (therapeutic use); TOLBUTAMIDE (therapeutic use).**

### Lindenbaum ES

**EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS.** Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

**ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BRAIN (metabolism); FEMALE; IMMOBILIZATION; MICE; NICOTINAMIDE (analogs & derivatives, urine); NOREPINEPHRINE (metabolism); PYRIDOXINE (pharmacodynamics); SEROTONIN (metabolism); STOMACH ULCER (etiology, prevention & control); STOMACH (pathology); STRESS (drug therapy, pathology).**

### Lindenbaum RH

**HYPOPHOSPHATEMIA OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS.** Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng) DL/76NOV225

### Lindstrom J

**EFFECT OF FIBROBLAST GROWTH FACTOR ON DIVISION AND FUSION OF BOVINE MYOBLASTS.** Gospodarowicz D, Weseman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

### Lipner HI

**METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS.** Avram MM, Lipner HI, Sadigali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

### Lipsey C

**CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS.** Zuhlike H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [3] DL/76NOV39

### Lisenkov VP

**[POSTOPERATIVE GLYCEMIC REACTIONS AND THEIR PROGNOSIS IN PATIENTS WITH CONCOMITANT DIABETES MELLITUS]** Myshkin KI, Lisenkov VP *Vestn Khr* 116: 97-9, May 76 (Rus) DL/76NOV266

### Litovchenko IuS

**[ACTIVITY OF BLOOD INSULIN IN DIABETES MELLITUS]** Litovchenko IuS *Vrach Delo* 105-8, Oct 75 (Rus) DL/76NOV268

**ADOLESCENCE; ADULT; AGE FACTORS; AGED; COMPARATIVE STUDY; DIABETES MELLITUS (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (blood); MALE; MIDDLE AGE.**

### Livengart IuE

**[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE]** Livengart IuE, Teslenko VG, Lebedev SV, Krupchitskaya KI *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

**ADULT; AGED; ANTIGENS; BLOOD SUGAR (analysis); CORONARY DISEASE (blood, immunology); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood, immunology); MALE; MIDDLE AGE.**

### Lodahl K

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CON-**

**TROLLED DOUBLE-BLIND TRIAL]** Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

### Lodise R

**RED BLOOD CELL METABOLISM IN AKR MICE IN THE PRELYMPHOMATOUS PHASE.** Kahn SB, Cheung T, Lodise R, Brodsky I *Cancer Res* 36: 194-9, Jan 76 (Eng) \*DL/76NOV454

### Loe H

**TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS.** Schiott CR, Loe H, Briner WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) DL/76NOV140

### Loew H

**NEW CLINICAL SYNDROMES UNDER REGULAR INTERMITTENT HEMODIALYSIS.** Loew H, Samizadeh A, Heilmann E *Curr Top Pathol* 61: 239-76, 1976 (Eng) [280] \*DL/76NOV464

**ANEMIA, HYPOCHROMIC (etiology, drug therapy); ARTERIOVENOUS SHUNT; SURGICAL (adverse effects); BLOOD FLOW VELOCITY; CARDIAC OUTPUT; CHOLECALCIFEROLS (metabolism); ERYTHROPOEISIS; GLUCOSE (metabolism); HEMODIALYSIS (adverse effects, methods); HEMOLYTIC-UREMIC SYNDROME (etiology); HUMAN; HYPERLIPIDEMIA (etiology); HYPERTENSION, RENAL (etiology, physiopathology); KIDNEY FAILURE, CHRONIC (complications, physiopathology, blood); MALE; PARATHYROID HORMONE (metabolism); PERIPHERAL NERVE DISEASES (etiology); PHOSPHATES (blood); RENAL; OSTEODYSTROPHY (etiology, diagnosis, drug therapy); REVIEW; STERILITY, MALE (etiology); TRIGLYCERIDES (blood).**

### Loge O

**METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH 5-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA).** Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) DL/76NOV381

### Logothetopoulos J

**PROINSULIN BIOSYNTHESIS BY PANCREATIC ISLETS OF THE RAT AND THE STUDY OF ALLOXAN CYTOTOXICITY IN VITRO.** Jain K, Logothetopoulos J *Biochim Biophys Acta* 435: 145-51, 18 Jun 76 (Eng) DL/76NOV8

### Long MJ 3d

**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

**AMINO ACIDS (metabolism); COMPARATIVE STUDY; DIETARY CARBOHYDRATES (metabolism); DIETARY FATS (metabolism); DRUG COMBINATIONS; GLUCOSE (metabolism); HUMAN; LECITHINS (metabolism); NITROGEN (urine); OILS (metabolism); PARENTERAL FEEDING; PROTEINS (metabolism).**

### Lonning S

**TERATOGENIC EFFECT OF TOLBUTAMIDE ON THE DEVELOPMENT OF THE SEA URCHIN EMBRYO (PARACENTROTUS LIVIDUS LAMARCK).** Hagstrom BE, Lonning S *Experientia* 32: 744-6, 15 Jun 76 (Eng) DL/76NOV56

### Lopez Borrasca A

**[INULIN INDUCED PLATELET AGGREGATION IN PATIENTS WITH PAROXYSMAL**

## Diabetes Literature—Author Index

Macnab AJ

**NOCTURNAL HAEMOGLOBINURIA (AUTHORS TRANSL)** Angulo P, Fernandez J, Lasierra J, Lopez Borrasca A *Sangre (Barc)* 21: 211-6, 1976 (Spa) DL/76NOV250

**Lorentz K**

**[AMYLASE DETERMINATION IN URINE]** Lorentz K, Koch CD *Disch Med Wochenschr* 101: 1261-2, 20 Aug 76 (Ger) DL/76NOV49

**ACUTE DISEASE; AMYLASE (urine); CEREBROVASCULAR DISORDERS (enzymology); DIABETES MELLITUS (enzymology); HEPATITIS (enzymology); HUMAN; KIDNEY FAILURE, CHRONIC (enzymology); METHODS; PANCREATITIS (enzymology).**

**Lorenz K**

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lüdtke E, Robbe K, Rahn A, Schmalz H *Kinderarztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**Lorenzi M**

**SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE** Deftof LJ, Lorenzi M, Bonanom N, Tsakalikas E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN** Gerich JE, Lorenzi M, Bier DM, Tsakalikas E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

**Lotan E**

**OBSERVATIONS ON THE EFFECT OF SHORTENING THE DRY PERIOD ON MILK YIELD, BODY WEIGHT, AND CIRCULATING GLUCOSE AND FFA LEVELS IN DAIRY COWS** Lotan E, Adler JH *Tijdschr Diergeneesk* 101: 77-82, 15 Jan 76 (Eng) DL/76NOV592

**ANIMAL EXPERIMENTS; BLOOD SUGAR; BODY WEIGHT; CATTLE (physiology); DAIRYING (methods); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; FERTILITY; LACTATION; LIPIDS (analysis); MILK (analysis); PREGNANCY.**

**LoVecchio L**

**NADPH-FORMING DEHYDROGENASES IN THE ADIPOSE TISSUE OF OBESE AND NONOBESSE DIABETICS** Belfiore F, LoVecchio L, Borzi V *Metabolism* 25: 723-5, Jul 76 (Eng) DL/76NOV173

**Lovrien F**

**DIABETIC NEUROPATHY: CLINICAL MANIFESTATIONS, DIAGNOSIS, AND MANAGEMENT** Lovrien F, Shipp JC *Nebr Med J* 61: 218-22, Jul 76 (Eng) DL/76NOV186

**ANIMAL EXPERIMENTS (analysis); CARBAMAZEPINE (therapeutic use); CASE REPORT; DIABETIC NEUROPATHIES (diagnosis, drug therapy); HUMAN; MALE; MIDDLE AGE; PROCAINE (therapeutic use); RATS.**

**Lower SC**

**CONTRASTING EFFECTS OF HYPOGLYCEMIA ON PLASMA RENIN ACTIVITY AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE (CYCLIC AMP) IN LOW RENIN AND NORMAL RENIN ESSENTIAL HYPERTENSION** Lower SC, Hamet P, Liddle GW *Circ Res* 38: 105-8, Feb 76 (Eng) DL/76NOV646

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); ADRENAL MEDULLA (physiopathology); BLOOD SUGAR; CATECHOLAMINES (secretion); HUMAN; HYDROCORTISONE (blood); HYPERTENSION (blood, enzymology, physiopathology); RENIN (blood); THEOPHYLLINE (pharmacodynamics).**

**Lowy K**

**MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS** Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

**Lozino AB**

**[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPHERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE]** Sokolov GV, Eremina SS, Lozino AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV552

**Lucas PD**

**EFFECT OF EXPERIMENTAL DIABETES, FOOD DEPRIVATION AND GENETIC OBESITY ON THE SENSITIVITY OF PITTED RATS TO AUTONOMIC AGENTS** Foy JM, Lucas PD *Br J Pharmacol* 57: 229-34, Jun 76 (Eng) DL/76NOV18

**Lucas T**

**[SECRETION OF GROWTH HORMONE IN ACROMEGALY]** Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

**Lüdtke E**

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lüdtke E, Robbe K, Rahn A, Schmalz H *Kinderarztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**Ludwig H**

**LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES** Scherthauer G, Ludwig H, May WR, Willvonseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

**Lukin M**

**INFLUENCE OF HYPERGLYCAEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS** Markiewicz K, Lukin M *Digestion* 14: 188-91, 1976 (Eng) DL/76NOV59

**Lum BO**

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. I. IDENTIFYING THE PROBLEM PATIENT** Lum BO *J Am Diet Assoc* 69: 157-61, Aug 76 (Eng) DL/76NOV111

**ACIDOSIS, DIABETIC** (diagnosis, etiology, prevention & control); ATTITUDE TO HEALTH; CHILD; COUNSELING; DIABETES MELLITUS, JUVENILE (complications, diet therapy); DIETETICS; HOSPITAL READMISSION; HUMAN; KETOSIS, DIABETIC (prevention & control); NUTRITION; PARENT-CHILD RELATIONS; PATIENTS (education); SICK ROLE.

**PREVENTING KETOACIDOSIS IN THE CHILD WITH JUVENILE-ONSET DIABETES MELLITUS. II. THE LEARNING ENVIRONMENT** Lum BO *J Am Diet Assoc* 69: 161-4, Aug 76 (Eng) DL/76NOV112

**ACIDOSIS, DIABETIC** (etiology, prevention & control); ADOLESCENCE; ATTITUDE TO HEALTH; CHILD; COUNSELING; DIABETES MELLITUS (diet therapy); DIABETES MELLITUS, JUVENILE (complications); DIETETICS; GROUP PROCESSES;

**HOSPITALIZATION; HUMAN; LEARNING; PARENT-CHILD RELATIONS; PATIENTS (education); SICK ROLE.**

**Lundgren G**

**PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES** Lundgren G, Arne P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

**ADULT; CASE REPORT; DIABETES MELLITUS (surgery); GRAFT REJECTION; HUMAN; LIGATION; MALE; PANCREAS (transplantation); PANCREATIC DUCTS (surgery); TRANSPLANTATION, HOMOLOGOUS (transplantation).**

**Luthje D**

**[PLACENTAL CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO VILLI MATURATION DISORDERS. (MORPHOLOGICAL FINDINGS AND SEVERITY OF THE DISEASE)]** Holz VM, Luthje D, Deitrich H *Zentralbl Gynaekol* 97: 859-70, 1975 (Ger) \*DL/76NOV602

**Lutolf UM**

**[EXHALATION DIAGNOSIS WITH C14 TAGGED COMPOUNDS, METHODS AND RESULTS]** Lutolf UM, Glanzmann C, Renk IW, Horst W *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

**BILE ACIDS AND SALTS (metabolism); CARBON RADIOISOTOPES; ENGLISH ABSTRACT; FATTY ACIDS (metabolism); HISTIDINE (metabolism); HUMAN; KREBS CYCLE; METABOLIC DISEASES (diagnosis, etiology); RADIOTHERAPY (adverse effects); TRIGLYCERIDES (metabolism); URIDYLIC ACIDS (metabolism).**

**Luyckx AS**

**PLASMA GLUCAGON AFTER KIDNEY EXCISION: EXPERIMENTS IN SOMATOSTATIN-INFUSED AND IN EVISCERATED DOGS** Lefebvre PJ, Luyckx AS *Metabolism* 25: 761-8, JUL 76 (Eng) DL/76NOV174

**Macchini M**

**[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT]** Billotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

**MacDonald RC**

**PHOSPHOLIPID EXCHANGE BETWEEN BILAYER MEMBRANE VESICLES** Martin FJ, MacDonald RC *Biochemistry* 15: 321-7, 27 Jan 76 (Eng) \*DL/76NOV423

**Machado MC**

**HYPERSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION** Machado MC, Monteiro da Cunha JE, Marigardo NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

**ADULT; CASE REPORT; COMA (etiology); HUMAN; HYPERGLYCEMIA (etiology); LIVER (transplantation); MALE; OSMOLAR CONCENTRATION; TRANSPLANTATION, HOMOLOGOUS (adverse effects).**

**Macnab AJ**

**DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC HYPOGLYCEMIA** Hutton RA, Macnab AJ, Rivera RP *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329

## Diabetes Literature—Author Index

### Maddock J

#### Maddock J

LAETIC ACIDOSIS COMPLICATING TREATMENT OF KETOSIS OF LABOUR. Ames AC, Cobbold S, Maddock J *Br Med J* 4: 611-3, 13 Dec 75 (Eng) \*DL/76NOV645

#### Maeda K

SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGININE AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

ADULT; ARGinine (diagnostic use); HUMAN; HYPOGLYCEMIA (chemically induced, physiopathology); INSULIN; MALE; PITUITARY GLAND (drug effects, secretion); SOMATOTROPIN (secretion); THYROTROPIN RELEASING HORMONE (pharmacodynamics).

#### Mahadevan S

EFFECT OF COLD STRESS ON RAPESEED OIL FED RATS. Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

#### Mahaffey MB

EFFECT OF STAPHYLOCOCCAL ALPHA-TOXIN PANCREATITIS ON GLUCOSE TOLERANCE IN THE DOG. Mahaffey MB, Anderson NV *Am J Vet Res* 37: 947-52, Aug 76 (Eng) DL/76NOV319

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); DIABETES MELLITUS (veterinary); DOG DISEASES (blood, etiology); DOGS; GLUCOSE TOLERANCE TEST (veterinary); PANCREATITIS (blood, etiology, veterinary); STAPHYLOCOCCUS; TOXINS.

#### Maher MJ

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

#### Maksimova LV

THE RELATIONSHIP BETWEEN PRE-EXERCITIONAL BIOCHEMICAL CHANGES METABOLIC FEATURES DURING MUSCULAR ACTIVITY. Krasnova AF, Lenkova RI, Leshkevich LG, Maksimova LV, Chagovets NR *Fiziol Zh SSSR* 61: 530-6, Apr 75 (Rus) DL/76NOV489

#### Malaisse WJ

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOLYSIS CONTROL CALCIUM TRANSPORT IN THE B-CELL. Sener A, Levy J, Malaisse WJ *Biocem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaisse WJ *Biocem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

#### Malins JM

STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

#### Manley CG

DIURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBESE HYPERGLYCAEMIC MICE. Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horum Res* 6: 380-6, 1975 (Eng) DL/76NOV80

#### Manna R

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS]. Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 2266-72, 21 Jul 76 (Ita) DL/76NOV188

#### Manning AP

LACK OF EFFECT ON BLOOD LIPID AND CALCIUM CONCENTRATIONS OF YOUNG MEN ON CHANGING FROM WHITE TO WHOLEMEAL BREAD. Heaton KW, Manning AP, Hartog M *Br J Nutr* 35: 55-60, Jan 76 (Eng) \*DL/76NOV643

#### Manoogian N

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

#### Manu P

[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT]. Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

#### Maran JW

THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPOPHYSIAL-ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS. PP. 351-83. Yates FE, Maran JW, FERENT WAYS AND, RATES. 00050057 *Im Aschoff J* et al, ed. *Chronobiological aspects of endocrinology*. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417

#### Marchesi L

[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]. Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampani GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

#### Margarido NF

HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION. Machado MC, Monteiro da Cunha JE, Margarido NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

#### Marigo S

OSMOTIC RESISTANCE OF LEUKOCYTES IN PATIENTS WITH ONSET OF DIABETES BEFORE TWENTY-FIVE YEARS. Marigo S, Bersezio A *Acta Diabetol Lat* 12: 289-95, Sep-Dec 75 (Eng) DL/76NOV284

ADOLESCENCE; ADULT; BLOOD SUGAR; CHILD; DIABETES MELLITUS (blood, physiopathology); DIABETES MELLITUS, JUVENILE (blood); DIABETES MELLITUS, JUVENILE (physiopathology); FEMALE; HUMAN; LEUKOCYTE COUNT;

LEUKOCYTES (physiology); MALE; MICROSCOPY, PHASE CONTRAST; OSMOLAR CONCENTRATION; OSMOTIC PRESSURE; PHAGOCYTOSIS; TIME FACTORS.

#### Markese J

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETO-RY SYSTEM. Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN *Biocem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

#### Markiewicz K

INFLUENCE OF HYPERGLYCAEMIA ON MAXIMAL GASTRIC SECRETION IN HEALTHY SUBJECTS. Markiewicz K, Lukin M *Digestion* 14: 188-91, 1976 (Eng) DL/76NOV59

ADOLESCENCE; ADULT; CALCIUM (analysis); CHLORIDES (analysis); GASTRIC ACIDITY DETERMINATION; GASTRIC JUICE (secretion); GLUCOSE (pharmacodynamics); HUMAN; HYPERGLYCEMIA (physiopathology); MAGNESIUM (analysis); MALE; PENTAGASTRIN (pharmacodynamics); POTASSIUM (analysis); SECRETORY RATE (drug effects); SODIUM (analysis).

#### Marliss EB

METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE. Jeejee hoy KN, Anderson GH, Nakhooda AF, Greenberg GR, Sanderson I, Marliss EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

#### Marmor BM

PANCREATITIS AND SEVERE METABOLIC ABNORMALITIES DUE TO PHENFORMIN THERAPY. Graeber GM, Marmor BM, Hendel RC, Gregg RO *Arch Surg* 111: 1014-6, Sep 76 (Eng) DL/76NOV338

#### Marsh D

SPECTROSCOPIC STUDIES OF MEMBRANE STRUCTURE. Marsh D *Essays Biochem* 11: 139-80, 1975 (Eng) [82] \*DL/76NOV478

ANIMAL EXPERIMENTS; CARBOHYDRATES (analysis); CELL MEMBRANE (analysis); CYTOCHROME P-450; CYTOCHROME REDUCTASES; DIFFUSION; ELECTRON SPIN RESONANCE; ERYTHROCYTES; HUMAN; LIPIDS; MEMBRANES (analysis, metabolism); MEMBRANES, ARTIFICIAL; MICROSOMES; LIVER; MITOCHONDRIA, LIVER; MOLECULAR WEIGHT; NUCLEAR MAGNETIC RESONANCE; PERMEABILITY; PHOSPHATIDYL CHOLINE; PHOSPHOLIPIDS (analysis); PROTEIN CONFORMATION; PROTEINS; REVIEW; RHODOPSIN; SPECTRUM ANALYSIS.

MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES. Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochem Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

#### Marshall JF

REDUCED ANOREXIC AND LOCOMOTOR-STIMULANT ACTION OF D-AMPHETAMINE IN ALLOXAN-DIABETIC RATS. Marshall JF, Friedman MI, Heffner TG *Brain Res* 111: 428-32, 30 Jul 76 (Eng) DL/76NOV23

ALLOXAN DIABETES (physiopathology); ANIMAL EXPERIMENTS (analysis); DEXTRO AMPHETAMINE (diagnostic use); FEEDING BEHAVIOR; MOTOR ACTIVITY; RATS.

#### Martin FI

THE NATURE AND USE OF PURIFIED INSULINS. Martin FI *Aust Fam Physician* 5: 514-25, May 76 (Eng) DL/76NOV348

DIABETES MELLITUS (drug therapy); DRUG HYPERSENSITIVITY (etiology); HUMAN; INSULIN (adverse effects, therapeutic use).

## Diabetes Literature—Author Index

McClintock R

**Martin FJ**  
**PHOSPHOLIPID EXCHANGE BETWEEN BILAYER MEMBRANE VESICLES.** Martin FJ, MacDonald RC *Biochemistry* 15: 321-7, 27 Jan 76 (Eng) \*DL/76NOV423

**BINDING SITES; KINETICS; LECITHINS; MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; OSMOLAR CONCENTRATION; POTASSIUM CHLORIDE; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

**Martin GE**  
**DOPAMINE EFFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING AND LEVER-PRESSING FOR FOOD.** Martin GE, Myers RD *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

**ANIMAL EXPERIMENTS (analysis); BRAIN CHEMISTRY; BRAIN STEM (anatomy & histology, metabolism); CEREBRAL VENTRICLES (metabolism); CONDITIONING, OPERANT; DOPAMINE (metabolism); DRINKING; EATING; HYPOTHALAMUS (metabolism); INSULIN (metabolism); MALE; MICROINJECTIONS; RATS; SUBSTANTIA NIGRA (metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).**

**Martin JB**  
**PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN.** Martin JB, Renaud LP, Brazeau P Jr *Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

**ANIMAL EXPERIMENTS; CORTICOSTERONE (blood); HYPOTHALAMUS (physiology); HYPOTHALAMUS, MEDIAL (physiology); MALE; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (secretion, blood); TIME FACTORS.**

**Martin RJ**  
**MAINTENANCE REQUIREMENT AND ENERGETIC EFFICIENCY OF LEAN AND OBES ZUCKER RATS.** Deb S, Martin RJ, Hershberger TV *J Nutr* 106: 191-7, Feb 76 (Eng) \*DL/76NOV533

**Martin-Linquette A**  
**[HYPOGLYCEMIC SULFAMIDES]** Martin-Linquette A *Lille Med* 21: 369-73, Apr 76 (Fre) DL/76NOV169

**DIABETES MELLITUS (drug therapy); HUMAN; SULFONAMIDES (pharmacodynamics, therapeutic use).**

**Masaki N**  
**PRODUCTION OF SPONTANEOUS DIABETIC RATS BY REPETITION OF SELECTIVE BREEDING.** Goto Y, Kakizaki M, Masaki N *Tohoku J Exp Med* 119: 85-90, May 76 (Eng) DL/76NOV258

**Mason AD**  
**ALTERATIONS IN GLUCOSE KINETICS FOLLOWING THERMAL INJURY.** Wilmore DW, Mason AD, Pruitt BA Jr *Surg Forum* 26: 81-3, 1975 (Eng) \*DL/76NOV591

**Mason AD Jr**  
**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

**Mason EE**  
**INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY.** Freeman JB, Stegink LD, Wittine MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

**Massair S**  
**MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. II. COUPLING BETWEEN STRONG ELECTROLYTE FLUXES.** Azzone GF, Massair S, Pozzan T *Biochim Biophys Acta* 423: 27-41, 15 Jan 76 (Eng) \*DL/76NOV435

**Massari S**  
**MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. I. COUPLING BETWEEN WEAK ELECTROLYTE FLUXES.** Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 15-26, 15 Jan 76 (Eng) \*DL/76NOV434

**Massin M**  
**[THE ARGON LASER AND DIABETIC RETINOPATHY]** Massin M, Laborde-Berranger A *Arch Ophthalmol (Paris)* 35: 735-46, Oct 75 (Fre) DL/76NOV341

**COMPARATIVE STUDY; DIABETIC RETINOPATHY (radiography, surgery); ENGLISH ABSTRACT; HUMAN; LASER COAGULATION; LIGHT COAGULATION; RETINAL ARTERY (radiography).**

**Masuda M**  
**NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS.** Goto Y, Toyota T, Masuda M, Komatsu K, Kurihara A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

**Matas AJ**  
**SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

**AMYLASE (analysis); ANIMAL EXPERIMENTS (analysis); CHLORIDES (pharmacodynamics); DIABETES MELLITUS (chemically induced, surgery); DOGS; HUMAN; INSULIN (analysis); ISLANDS OF LANGERHANS (transplantation); KALLIKREIN-TRYPSIN INACTIVATOR (pharmacodynamics); PILOCARPINE (pharmacodynamics); RATS; STREPTOZOTOCIN (administration & dosage); TISSUE CULTURE (methods); TRANSPLANTATION, AUTOLOGOUS; UNITED STATES GOVERNMENT SUPPORTED, N.L.H.).**

**Matsuno T**  
**STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMIC PP. 232-42.** Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfien A *In 0 Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p 1974.* (Eng) \*DL/76NOV414

**Matthews MA**  
**THE ISOLATION AND CULTURE OF CAPILLARY ENDOTHELIUM FROM EPIDIDYMAL FAT.** Wagner RC, Matthews MA *Microvasc Res* 10: 286-97, Nov 75 (Eng) \*DL/76NOV551

**Matthews TG**  
**OBSERVATIONS ON SEVERE RHESUS HAEMOLYTIC DISEASE.** Matthews TG, Nolan G, O'Sullivan BJ *Ir Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

**BLOOD TRANSFUSION; CASE REPORT; ERYTHROBLASTOSIS, FETAL (complications, therapy); FEMALE; GLUCOSE (therapeutic use); HEMOGLOBINOMETRY; HUMAN; HYPERBILIRUBINEMIA (complications); HYPOGLYCEMIA (prevention & control); INFANT, NEWBORN; PREGNANCY; RH-HR BLOOD-GROUP SYSTEM; THROMBOOPENIA (complications).**

**Matty AJ**  
**DJURNAL VARIATIONS OF FOOD CONSUMPTION, PLASMA GLUCOSE AND PLASMA INSULIN CONCENTRATIONS IN LEAN AND OBES HYPERGLYCAEMIC MICE.** Bailey CJ, Atkins TW, Conner MJ, Manley CG, Matty AJ *Horm Res* 6: 380-6, 1975 (Eng) DL/76NOV80

**PROCEEDINGS: EFFECT OF GLUCOSE AND GASTROINTESTINAL HORMONES ON THE ACCUMULATION AND EFLUX OF CYCLIC AMP FROM ISOLATED ISLETS OF LANGERHANS OF LEAN AND OBES HYPERGLYCAEMIC MICE.** Best L, Atkins TW, Matty AJ *J Endocrinol* 69: 26p, Jun 76 (Eng) DL/76NOV133

**Matute ML**  
**PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM.** Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) DL/76NOV175

**Matzakis F**  
**[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION]** Matzakis F, Berg G, Bickel H, Saile D *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

**ACETOACETATES (metabolism); ADULT; ENGLISH ABSTRACT; FASTING; FRUCTOSE (administration & dosage); HUMAN; HYDROXYBUTYRATES (metabolism); INFUSIONS, PARENTERAL; KETONE BODIES (blood); LIPIDS (blood); MALE; SORBITOL (administration & dosage, pharmacodynamics).**

**Mayr WR**  
**LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES.** Scherthauer G, Ludwig H, Mayr WR, Willvonseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) DL/76NOV181

**Mazzanti L**  
**LIPID PROTEIN INTERACTIONS IN MITOCHONDRIA. SPIN AND FLUORESCENCE PROBE STUDIES ON THE EFFECT OF N-ALKANOLS ON PHOSPHOLIPID VESICLES AND MITOCHONDRIAL MEMBRANES.** Lenaz G, Bertoli E, Curatola G, Mazzanti L, Bigi A *Arch Biochem Biophys* 172: 278-88, Jan 76 (Eng) \*DL/76NOV629

**McCann SM**  
**ENZYMIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION.** Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV470

**THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO.** Sundberg DK, Fawcett CP, McCann SM *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

**McCarl RL**  
**INVOLVEMENT OF CYCLIC NUCLEOTIDES IN THE BEATING RESPONSE OF RAT HEART CELLS IN CULTURE.** Ghanbari H, McCarl RL *J Mol Cell Cardiol* 8: 481-8, Jun 76 (Eng) DL/76NOV144

**McClintock R**  
**DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYTIC ACTION OF PARATHYROID HORMONE.** Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

## Diabetes Literature—Author Index

### McColl I

#### McColl I

STIMULATION OF WATER AND SODIUM SECRETION AND INHIBITION OF GLUCOSE ABSORPTION FROM THE RAT JEJUNUM DURING INTRAARTERIAL INFUSIONS OF PROSTGLANDINS. Coupar IM, McColl I *Gut* 16: 759-65, Oct 75 (Eng) \*DL/76NOV651

#### McConnell HM

INTERACTIONS OF PROTEINS AND CHOLESTEROL WITH LIPIDS IN BILAYER MEMBRANES. Kleemann W, McConnell HM *Biochim Biophys Acta* 419: 206-22, 21 Jan 76 (Eng) \*DL/76NOV425

#### McDonough PG

OFFICE GYNECOLOGY: AN APPROACH TO THE PROBLEM OF HIRTSUTISM. McDonough PG *Postgrad Med* 59: 192-9, Feb 76 (Eng) \*DL/76NOV564  
ADRENAL GLAND HYPERFUNCTION (diagnosis); BLOOD SUGAR (analysis); DIAGNOSIS, DIFFERENTIAL; FEMALE; HIRTSUTISM (diagnosis, blood, etiology); HUMAN; HYDROCORTISONE (blood); MENSTRUATION; OVARIAN DISEASES (diagnosis); TESTOSTERONE (blood); VAGINAL SMEARS; 17-HYDROXYCORTICOSTEROIDS (urine); 17-KETOSTEROIDS (urine).

#### McElhaney RN

INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES. Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jan 76 (Eng) \*DL/76NOV427

#### McFadyen IR

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltes G, Noakes D, Joyce J, McFadyen IR, Lewis B *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

#### McGill HC Jr

EXPERIMENTAL ATHEROSCLEROSIS IN THE BABOON. McGill HC Jr, Mott GE, Bramblett CA *Primates Med* 9: 41-65, 1976 (Eng) [98] \*DL/76NOV675  
ANIMAL EXPERIMENTS; ARTERIOSCLEROSIS (pathology, familial & genetic); BABOONS (physiology, blood); BLOOD COAGULATION; CHOLELITHIASIS (etiology); CHOLESTEROL (blood); CORONARY DISEASE (pathology); CORONARY VESSELS (pathology); DISEASE MODELS, ANIMAL; FATTY STREAK, ARTERIAL (pathology); FEMALE; LIPOPROTEINS (blood); MALE; MONKEYS; MYOCARDIUM (pathology); REPRODUCTION; REVIEW; SMOKING (complications); SOCIAL BEHAVIOR; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

#### McIntosh N

ENDOCRINOPATHY IN THALASSAEMIA MAJOR. McIntosh N *Arch Dis Child* 51: 195-201, Mar 76 (Eng) DL/76NOV330  
ADOLESCENCE; ADRENAL GLANDS (physiopathology); BLOOD SUGAR; CHILD; CHILD, PRESCHOOL; CORTICOTROPIN (blood); FEMALE; HUMAN; HYDROCORTISONE (blood); INSULIN (blood); IRON (metabolism); MALE; PANCREAS (physiopathology); PITUITARY GLAND (physiopathology); SOMATOTROPIN (blood); THALASSEMIA (physiopathology); 17-HYDROXYCORTICOSTEROIDS (urine); 17-KETOSTEROIDS (urine).

#### McKillip R

TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE. Green H, Bishop P, Houston M, McKillip R, Norman R, Stothart P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

#### McWilliams D

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroeck J, Chyn R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

#### Meezan E

ISOLATED BRAIN MICROVESSELS: A PURIFIED, METABOLICALLY ACTIVE PREPARATION FROM BOVINE CEREBRAL CORTEX. Brendel K, Meezan E, Carlson EC *Science* 185: 953-5, 13 Sept 74 (Eng) \*DL/76NOV584

#### Mehnert H

MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS. Volger E, Schmid-Schonbein H, Mehnert H *Biol Anat* 13: 97-8, 1975 (Eng) DL/76NOV357

#### Mehta J

REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE. Hambly RI, Sherman L, Mehta J, Aintablian A *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

#### Merchant S

RADIORESPIROMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE. DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) DL/76NOV532

#### Merkle P

[FUNCTIONAL AND METABOLIC CHANGES OF THE MUCOSA DURING THE OCCLUSION OF THE SMALL BOWEL OF THE RAT (AUTHORS TRANSL)] Merkle P, Bindewald H, Breitig D *Langenbecks Arch Chir* 338: 291-7, 10 Sep 75 (Ger) \*DL/76NOV546  
ALKALINE PHOSPHATASE (metabolism); ANIMAL EXPERIMENTS; ANOXIA (complications); ANTIPYRINE (metabolism); ASPARTATE AMINOTRANSFERASE (metabolism); BIOLOGICAL TRANSPORT; GLUCOSE (metabolism); GLUCOSEOPHOSPHATE DEHYDROGENASE (metabolism); INTESTINAL ABSORPTION; INTESTINAL MUCOSA (metabolism, enzymology, physiopathology); INTESTINAL OBSTRUCTION (physiopathology); INTESTINE, SMALL (physiopathology); LACTATES (metabolism); MITOCHONDRIAL SWELLING; PYRUVATES (metabolism); RATS; SUCCINATE DEHYDROGENASE (metabolism).

#### Meyer LW

[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

#### Mezey E

[THERAPY OF ALCOHOLISM] Bueno F, Mezey E *Internist (Berlin)* 17: 362-9, Jul 76 (Ger) DL/76NOV82

#### Michaels G

LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND

PHOSPHOLIPID PROBES. Stoffel W, Michaelis G *Hoppe Seyler Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

#### Michailov ML

[EFFECT OF ANGIOTENSIN II ON THE PATTERN OF PLASMA FREE FATTY ACIDS IN 2 HYPERTENSION MODELS IN RABBITS] Michailov ML *Co Vasa* 17: 285-91, 1975 (Ger) \*DL/76NOV462

ANGIOTENSIN II (pharmacodynamics); ANIMAL EXPERIMENTS; BLOOD PRESSURE (drug effects); DISEASE MODELS, ANIMAL; FATTY ACIDS, NONESTERIFIED (blood); HYPERTENSION (blood); HYPERTENSION, RENAL (blood); MALE; RABBITS; TIME FACTORS.

#### Micossi P

EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESIN IN MAN. Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

#### Migliarese G

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS] Palazzuoli V, Gragnoli G, Favilli R, Tangarelli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

#### Mihalache N

[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA] Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

#### Mikhailova NA

THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY. Zaretskaya RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV7

#### Mikkelsen BO

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTURIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTURIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Lindbjergr IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

#### Mikolishin LI

[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES] Glants RN, Skovronskaya EA, Vovk GP, Mikolishin LI *Bull Eksp Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

#### Mildvan AS

MAGNETIC RESONANCE STUDIES OF THE PROXIMITY AND SPATIAL ARRANGEMENT OF PROPIONYL COENZYME A AND PYRUVATE ON A BIOTIN-METALLOENZYME, TRANSCARBOXYLASE. Fung CH, Gupta RK, Mildvan AS *Biochemistry* 15: 85-92, 13 Jan 76 (Eng) \*DL/76NOV421

## Diabetes Literature—Author Index

Mochizuki S

**Milgram JM**  
**NONELECTROLYTE DIFFUSION ACROSS LIPID BIAYER SYSTEMS.** Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng) \*DL/76NOV661

**Millard PR**  
**SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA.** Millard PR, Jerome DW, Millward-Sadler GH *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

**ADULT; AGED; ANGIOSARCOMA (complications); BRAIN NEOPLASMS (complications); BRAIN (pathology); CASE REPORT; FEMALE; HUMAN; HYPOGLYCEMIA (complications, etiology); LIVER NEOPLASMS (complications); LIVER (pathology); MIDDLE AGE; NEOPLASM RECURRENCE, LOCAL (pathology); PLEURA (ultrastructure); PLEURAL NEOPLASMS (pathology); PREGNANCY COMPLICATIONS (pathology); PREGNANCY.**

**Miller M**  
**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

**Miller NE**  
**EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS.** Mjos OD, Miller NE, Riemsma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

**Miller RJ**  
**COMPARISON OF THE INHIBITORY EFFECTS OF NEUROLEPTIC DRUGS ON ADENYLATE CYCLASE IN RAT TISSUES STIMULATED BY DOPAMINE, NORADRENALINE AND GLUCAGON.** Miller RJ *Biochem Pharmacol* 25: 537-41, 1 Mar 76 (Eng) DL/76NOV380

**ADENYL CYCLASE (antagonists & inhibitors); ADIPOSE TISSUE (ultrastructure); ANIMAL EXPERIMENTS (analysis); CHLORPROMAZINE (pharmacodynamics); CHLORPROTHIXENE (pharmacodynamics); CORPUS STRIATUM (drug effects, enzymology); DOPAMINE (pharmacodynamics); FLUPENTIXOL (pharmacodynamics); GLUCAGON (pharmacodynamics); HALOPERIDOL (pharmacodynamics); IN VITRO; LIVER (ultrastructure); MEMBRANES (drug effects, enzymology); NORADRENALINE (pharmacodynamics); PIMOZIDE (pharmacodynamics); PROMAZINE (pharmacodynamics); RATS; RECEPTORS, ADRENERGIC (drug effects); TRANQUILIZING AGENTS (pharmacodynamics).**

**Miller RN**  
**OBSERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTOSE STORED BLOOD IN MAN.** Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH *Laryngoscope* 86: 1272-9, Aug 76 (Eng) DL/76NOV167

**AGED; BILIRUBIN (blood); BLOOD PRESERVATION; BLOOD PRESSURE; BLOOD TRANSFUSION; CALCIUM (blood); CITRATES; GLUCOSE; HUMAN; INSULIN (blood); MIDDLE AGE; PARATHYROID HORMONE (blood); PHOSPHATES, INORGANIC; POTASSIUM (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

**Millward DJ**  
**MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTI-**

**COIDS.** Millward DJ, Nnanyelugo DO, Bates P, Heard CR *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

**ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); INSULIN (secretion); LIVER (metabolism); MALE; MUSCLE PROTEINS (metabolism); MUSCLES (metabolism); PROTEIN DEFICIENCY (metabolism); PROTEINS (metabolism); RATS; RNA (metabolism); TRIAMCINOLONE ACETONIDE (pharmacodynamics); TYROSINE (metabolism).**

**THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS.** Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

**ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (chemically induced, metabolism); GLUCOCORTICOIDS; HYPOPHYSECTOMY; ISOLEUCINE (analysis); LEUCINE (analysis); MALE; METHIONINE (analysis); MUSCLE PROTEINS (biosynthesis, metabolism); MUSCLES (anatomy & histology, metabolism); RATS; RNA, RIBOSOMAL (metabolism); STARVATION; STREPTOZOTOCIN; VALINE (analysis).**

**Millward-Sadler GH**  
**SPINDLE-CELL TUMOURS AND HYPOGLYCAEMIA.** Millard PR, Jerome DW, Millward-Sadler GH *J Clin Pathol* 29: 520-9, Jun 76 (Eng) DL/76NOV108

**Milman LS**  
**[CHANGES IN THE ACTIVITY OF ENZYMES OF GLYCOGEN METABOLISM IN OOCYTES AND EMBRYOS OF TELEOSTS]** Iurovitski IUG, Milman LS *Biochimia* 40: 962-8, Sep-Oct 75 (Rus) \*DL/76NOV440

**Minchew M**  
**[POSSIBILITIES OF RADIOISOTOPE DETERMINATION OF GLOMERULAR FILTRATION IN THE DIAGNOSIS OF RENAL COMPLICATIONS IN DIABETES MELLITUS]** Ignatov A, Karastanov I, Minchew M *Urol Nefrol (Mosk)* 13-6, Sept-Oct 75 (Rus) DL/76NOV263

**Mincu I**  
**[INCIDENCE OF CORONARY MACROANGIOPATHY IN CLINICALLY MANIFEST DIABETES MELLITUS]** Leon A, Mincu I *Rev Med Intern [Med Intern]* 28: 41-8, Jan-Feb 76 (Rum) DL/76NOV230

**[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA]** Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

**ADULT; AGED; CARBOHYDRATES (metabolism); DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; FEMALE; GLUCOSE (metabolism); HUMAN; MALE; MIDDLE AGE; MULTIPLE MYELOMA (complications, metabolism); PARAPROTEINEMIAS (metabolism).**

**Minkoff L**  
**LETTER: ENERGY REQUIREMENTS OF MEMBRANE PUMPS.** Minkoff L, Damadian R *N Engl J Med* 292: 162-3, 16 Jan 75 (Eng) \*DL/76NOV669

**ADENOSINE TRIPHOSPHATE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; ESCHERICHIA COLI; MEMBRANE POTENTIALS; THYROID GLAND (metabolism).**

**Minkoff N**  
**SENSITIVITY TO CARBOHYDRATE IN A PATIENT WITH FAMILIAL INTERMITTENT LACTIC ACIDOSIS AND PYRUVATE DEHYDROGENASE DEFICIENCY.**

**Cederbaum SD, Blas JP, Minkoff N, Brown WJ, Cotton ME, Harris SH *Pediatr Res* 10: 713-20, Aug 76 (Eng) DL/76NOV203**

**Minuto F**  
**GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN.** Giordano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol (Kbh)* 81: 449-54, Mar 76 (Eng) \*DL/76NOV604

**Mirouze J**  
**[HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS]** Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

**ADULT; DIABETES MELLITUS (immunology); DIABETES MELLITUS, JUVENILE (immunology); ENGLISH ABSTRACT; FEMALE; HISTOCOMPATIBILITY ANTIGENS (analysis); HL-A (analysis); HUMAN; LEUKOCYTE CULTURE TEST, MIXED; MALE; MIDDLE AGE; STATISTICS.**

**Miyata M**  
**SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY.** Miyata M, Yamamoto T, Nakao K *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

**GLUCAGON (blood); HUMAN; PANCREAS (physiology); SURGERY, OPERATIVE (adverse effects); TIME FACTORS.**

**Mjos OD**  
**EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS.** Mjos OD, Miller NE, Riemsma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

**ANIMAL EXPERIMENTS; BLOOD PRESSURE (drug effects); CLOFIBRATE (analogs & derivatives, pharmacodynamics); CORONARY CIRCULATION (drug effects); CORONARY DISEASE (drug therapy, metabolism); DOGS; ELECTROPHYSIOLOGY; FATTY ACIDS, NONESTERIFIED (metabolism); FEMALE; HEART RATE (drug effects); HEART (drug effects); ISOPROTERENOL (pharmacodynamics); MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism).**

**EFFECT OF REDUCTION OF MYOCARDIAL FREE FATTY ACID METABOLISM RELATIVE TO THAT OF GLUCOSE ON THE ISCHEMIC INJURY DURING EXPERIMENTAL CORONARY ARTERY OCCLUSION IN DOGS.** Mjos OD *Acta Med Scand [Suppl]* 29-34, 1976 (Eng) \*DL/76NOV613

**ACETATES (therapeutic use, pharmacodynamics); ACUTE DISEASE; ALBUMINS (therapeutic use, pharmacodynamics); ANIMAL EXPERIMENTS; BUTYRYATES (therapeutic use, pharmacodynamics); CORONARY DISEASE (metabolism, drug therapy); DOGS; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); MYOCARDIUM (metabolism); NICOTINYL ALCOHOL (therapeutic use, pharmacodynamics); PROSTAGLANDINS E (therapeutic use, pharmacodynamics).**

**Mochizuki S**  
**OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART.** Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

## Diabetes Literature—Author Index

### Moczar M

Moczar M

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSCOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

ADOLESCENCE; ADULT; AGING; BIOPSY; BUFFERS; CALCIUM CHLORIDE; CHILD; CLOSTRIDIOPETIDASE A; COLLAGEN (biosynthesis); CYTOPLASM (ultrastructure); DIABETES MELLITUS (metabolism); ELASTIN (biosynthesis); ENDOPLASMIC RETICULUM (ultrastructure); ENGLISH ABSTRACT; FIBROBLASTS (ultrastructure); GLYCPROTEINS (biosynthesis); HUMAN; HYDROXYPROLINE (analysis); INTERCELLULAR JUNCTIONS (metabolism); LYSINE (metabolism); PANCREATOPEPTIDASE; SKIN (metabolism, ultrastructure); TRITIUM; UREA.

Moehr P

ORAL VERSUS INTRAVENOUS ADMINISTRATION OF BUTYLBIGUANIDE: EFFECT ON ORAL GLUCOSE TOLERANCE IN NORMAL HUMANS. Berger EG, Moehr P *Eur J Clin Invest* 6: 221-8, 21 Jun 76 (Eng) DL/76NOV54

Moessner F

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freyss E, Tissier J *Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

Mogensen EF

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) DL/76NOV261

AGE FACTORS; AGED; CLINICAL RESEARCH; COMPARATIVE STUDY; DIABETES MELLITUS (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; GLIBENCLAMIDE (therapeutic use); GLIBORNURIDE (therapeutic use); HUMAN; MALE; MIDDLE AGE; SULFONYLUREA COMPOUNDS (therapeutic use).

Moise T

[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Sifreleza V, Tudor P, Moise T *Rev Ig [Pneumofisiol]* 25: 39-42, Jan-Mar 76 (Rum) DL/76NOV237

Moloo SK

NUTRITION OF GLOSSINA MORSITANS: METABOLISM OF U-14C GLUCOSE DURING PREGNANCY. Moloo SK *J Insect Physiol* 22: 195-200, 1976 (Eng) \*DL/76NOV531

ANIMAL EXPERIMENTS; FEMALE; GLUCOSE (metabolism); REPRODUCTION; TSSETSE FLIES (physiology, metabolism).

Moneta E

[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS] Primicerio M, Plotti G, Montemurro A, Moneta E, Bompiani A *Ann Ostet Ginecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

Monnier JC

[MEDICAL COUNTERINDICATIONS FOR PREGNANCY] Monnier JC *Lille Med 20 spec no*: 242-6, 1975 (Fre) DL/76NOV168

ABORTION, THERAPEUTIC; CONTRACEPTION; DEAF-MUTISM (familial &

genetic); DIABETES MELLITUS (complications); FEMALE; GYNECOLOGIC DISEASES (complications); HEART DISEASES (complications); HUMAN; KIDNEY DISEASES (complications); PREGNANCY.

Montagnani M

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIOLCALCIUM] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

ADDISON'S DISEASE (metabolism); ADULT; AGED; CALCIUM METABOLISM DISORDERS (diagnosis); CALCIUM (blood); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (pharmacodynamics); HUMAN; HYPERTHYROIDISM (metabolism); HYPOPARATHYROIDISM (metabolism); MIDDLE AGE; OSTEOPOROSIS (metabolism).

Montague W

[THE MODE OF ACTION OF ADENOSINE 3,5-CYCLOCOPHOSPHATE IN THE REGULATION OF INSULIN SECRETION] Montague W, Howell SL, Ciba Found Symp 41: 141-58, 1976 (Eng) [3] DL/76NOV38

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CALCIUM (pharmacodynamics); COLCHICINE (metabolism); ENZYME ACTIVATION (drug effects); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); MODELS, BIOLOGICAL; PROTEIN KINASE (metabolism); REVIEW; XANTHINES (pharmacodynamics).

INSULIN RELEASE AND THE MICROTUBULAR SYSTEM OF THE ISLETS OF LANGERHANS: EFFECTS OF INSULIN SECRETAGOGUES ON MICROTUBULE SUB-UNIT POOL SIZE. Montague W, Howell SL, Green IC *Horm Metab Res* 8: 166-9, May 76 (Eng) DL/76NOV68

ANIMAL EXPERIMENTS (analysis); BINDING SITES; CALCIUM (pharmacodynamics); COLCHICINE (metabolism); COLD; DEUTERIUM; FEMALE; GLUCOSE (pharmacodynamics); INSULIN (metabolism); ISLANDS OF LANGERHANS (cytology, drug effects, metabolism); MICROTUBULES (drug effects, metabolism); PROTEIN BINDING; RATS; VINBLASTINE (pharmacodynamics); XANTHINES (pharmacodynamics).

EFFECTS OF DRUGS ON GLUCOSE AND TOLBUTAMIDE-STIMULATED INSULIN RELEASE FROM ISOLATED RAT ISLETS OF LANGERHANS. El-Denshary EE, Montague W *Biochem Pharmacol* 25: 1451-4, 1 Jul 76 (Eng) DL/76NOV378

Monteiro da Cunha JE

HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION. Machado MC, Monteiro da Cunha JE, Marigardo NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

Montemurro A

[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS] Primicerio M, Plotti G, Montemurro A, Moneta E, Bompiani A *Ann Ostet Ginecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

Moody AJ

UNUSUAL SPECIFICITIES OF ANTIBODIES TO F1 GLUCAGON-GLUTARALDEHYDE-ALBUMIN CONJUGATES. Garraud JC, Moody AJ, Eloy R, Grenier JF *Horm Metab Res* 8: 241-3, May 76 (Eng) DL/76NOV77

Moore MC

DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS. Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

ADULT; AORTA (pathology);

ARTERIOSCLEROSIS (etiology);

ATHEROSCLEROSIS (etiology, prevention & control, pathology); AUTOPSY; CORONARY VESSELS (pathology); DIET SURVEYS; DIET; DIETARY CARBOHYDRATES; DIETARY FATS; DIETARY PROTEINS; ENERGY METABOLISM; HUMAN; MALE; MIDDLE AGE; NEGROID RACE; PLANT PROTEINS; RETROSPECTIVE STUDIES; UNITED STATES GOVERNMENT SUPPORTED; N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; VEGETABLE PROTEINS.

Moorthy K

LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS. Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorge NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) \*DL/76NOV463

Moossa AR

SURVIVAL OF DOGS SUBJECTED TO PROFOUND HYPOTHERMIA WITH CIRCULATORY SUPPORT. Zarins CK, Moossa AR, Skinner DB *Arch Surg* 111: 186-9, Feb 76 (Eng) \*DL/76NOV631

Moran JS

EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS. Gospodarowicz D, Weseman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

Moravec J

DEPENDENCE OF MYOCARDIAL REDOX SYSTEMS ON THE CONCENTRATION OF EXOGENOUS SUBSTRATE. Moravec J, Corsin A, Hatt PY *Recent Adv Stud Cardiac Struct Metab* 8: 167-77, 1975 (Eng) \*DL/76NOV574

ACETOACETATES (metabolism); ANIMAL EXPERIMENTS; ELECTRONS; GLUCOSE (metabolism); HYDROXYBUTYRATES (metabolism); MITOCHONDRIA; MUSCLE (metabolism); MYOCARDIUM (metabolism); NAD; OXIDATION-REDUCTION; OXYGEN CONSUMPTION; PYRUVATES (metabolism); RATS.

Moravec R

[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)] Oravec D, Moravec R *Bratis Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

Morgan HE

EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS. Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117-23, 1976 (Eng) \*DL/76NOV611

Morgan JM

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Dietelmann AG, Sterling WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

Morikawa A

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XVI. THEORY AND EVALUATION OF A MODEL FOR THE MEMBRANE

## Diabetes Literature—Author Index

Naftalin RJ

**TRANSPORT REACTION MEDIATED BY A SINGLE CARRIER WITH THREE BINDING SITES FOR SUBSTRATE.** Awazu S, Amanuma H, Morikawa A, Anraku Y *J Biochem (Tokyo)* 78: 1047-56, Nov 75 (Eng) \*DL/76NOV510

**Morland J**

**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

**Morreale de Escobar G**

**CONVERSION OF L-THYROXINE TO TRIIODO-L-THYRONINE AND BIOLOGICAL ACTIVITY OF L-THYROXINE, AS MEASURED BY CHANGES IN GROWTH HORMONE.** Hervas F, Morreale de Escobar G, Escobar del Rey F *Endocrinology* 98: 77-83, Jan 76 (Eng) \*DL/76NOV468

**Morrison AD**

**MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS PRESERVED.** Morrison AD, Berwick L, Orci L, Winegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

**AEROBIOSIS; ANIMAL EXPERIMENTS; AORTA, THORACIC (cytology, metabolism); ENDOTHELIUM (cytology, metabolism); GLUCOSE (metabolism); GLYCOLYSIS; LACTATES (biosynthesis); MALE; MUSCLE, SMOOTH (cytology); OXYGEN CONSUMPTION; RABBITS; TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

**Morse KW**

**A SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF GLUCOSE IN BLOOD SERUM.** Daines TL, Morse KW *J Chem Educ* 53: 126-7, Feb 76 (Eng) \*DL/76NOV521

**Mort JS**

**THE CONTROL OF PYRUVATE KINASE OF *ESCHERICHIA COLI*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE.** Waygood EB, Mort JS, Sanwal BD *Biochemistry* 15: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422

**Moshkovskii IuS**

**ION-DEPENDENT CONFORMATIONAL TRANSITIONS IN TRANSPORT ATPASE MEMBRANE PREPARATIONS.** Raikhman LM, Moshkovskii IuS *Mol Biol* 8: 768-74, Sep-Oct 74 (Rus) \*DL/76NOV553

**Moskvichev AM**

**PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSES.** Moskvichev AM, Shlimovich PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

**CHRONIC DISEASE; DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; FEMALE; GLUCOSE (metabolism); HEPATITIS (blood, metabolism); HUMAN; INSULIN (blood); LIVER CIRRHOSES (blood, metabolism); MALE.**

**Mott GE**

**EXPERIMENTAL ATHEROSCLEROSIS IN THE BABOON.** McGill HC Jr, Mott GE, Bramblett CA *Primates Med* 9: 41-65, 1976 (Eng) [98] \*DL/76NOV675

**Mueller EJ**

**EFFECTS OF MEDROXY-PROGESTERONE ACETATE ON RAT FAT CELL METABOL-**

ISM. Hertelendy F, Dahm CH Jr, Mueller EJ *Horm Metab Res* 8: 82-3, Jun 76 (Eng) \*DL/76NOV502

**Mueller JJ**

**EFFECTS OF PYRIDOXINE ON MICE AFTER IMMOBILIZATION STRESS.** Lindenbaum ES, Mueller JJ *Nutr Metab* 17: 368-74, 1974 (Eng) \*DL/76NOV561

**Mulhif IW**

**PROCEEDINGS: THE EFFECTS OF NON-TRANSPORTABLE COMPETITIVE INHIBITORS OF SUGAR TRANSFER ON THE SHORT-CIRCUIT CURRENT OF THE RAT EVERTED SMALL INTESTINE.** Mulhif IW, Widdas WF *J Physiol (Lond)* 254: 50P-52P, Jan 76 (Eng) \*DL/76NOV538

**ANIMAL EXPERIMENTS;**

**ELECTROPHYSIOLOGY; GLUCOSE (analogs & derivatives, pharmacodynamics); IN VITRO; INTESTINE, SMALL (physiology); RATS.**

**Muhlhoff G**

**[PROVOCATION TESTS IN PHEOCHROMOCYTOMA]** Muhlhoff G, Sack H *Med Welt* 27: 1179-81, 11 Jun 76 (Ger) DL/76NOV172

**ADULT; BLOOD PRESSURE (drug effects); EPINEPHRINE (urine); FEMALE; GLUCAGON (diagnostic use); HUMAN; NOREPINEPHRINE (urine); PHENOXYBENZAMINE (diagnostic use); PHEOCHROMOCYTOMA (diagnosis).**

**Muller F**

**[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. 1ST COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS]** Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

**Muller WE**

**CIRCULAR DICHROISM STUDIES ON THE INTERACTION OF SULFONYLUREAS WITH INSULIN.** Muller WE, Wollert U *Naunyn Schmiedebergs Arch Pharmacol* 293: 97-9, 24 Mar 76 (Eng) DL/76NOV185

**BINDING SITES (drug effects); CIRCULAR DICHROISM; INSULIN (metabolism); PROTEIN CONFORMATION (drug effects); SULFONYLUREA COMPOUNDS (pharmacodynamics); SWINE.**

**Munemura M**

**ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES.** PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N *In 6th Hototan N. ed. Psychoneuroendocrinology. Basel*, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411

**Munro JF**

**ENDOCRINE AND METABOLIC DISEASE. OBESITY.** Munro JF *Br Med J* 1: 388-90, 14 Feb 76 (Eng) \*DL/76NOV447

**DIET, REDUCING; EXERTION; FENFLURAMINE (therapeutic use); HUMAN; ILEUM (surgery); JEJUNUM (surgery); MAZINDOL (therapeutic use); OBESITY (therapy, diet therapy, drug therapy, surgery); PHENETHYLAMINES (therapeutic use); STARVATION.**

**Murakami E**

**CIRCADIAN RHYTHMS IN DISACCHARIDES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE.** Saito M, Murakami E, Suda M *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) \*DL/76NOV431

**Murakami H**

**CHANGES IN ACTIVITIES OF SEVERAL ENZYMES FOR CARBOHYDRATE METABOLISM IN THE RAT SUBMAXILLARY GLAND IN RESPONSE TO EXPERIMENTAL DIABETES AND INSULIN TREATMENT.** Murakami H *J Nihon Univ Sch Dent* 16: 91-4, Dec 74 (Eng) DL/76NOV136

**ANIMAL EXPERIMENTS (analysis); CARBOHYDRATES (metabolism); DIABETES MELLITUS (enzymology); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HEXOKINASE (metabolism); INSULIN (pharmacodynamics); LACTATE DEHYDROGENASE (metabolism); MALE; RATS; SUBMANDIBULAR GLAND (enzymology).**

**Murer H**

**ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE.** P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Saffran E, Le Magne J *Colloque Europeen de physiologie renale. Paris, INSERM, 1974. WJ 300 E89c 1974.* (Eng) DL/76NOV401

**Murray WK**

**IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS.** Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

**Myers RD**

**DOPAMINE EFFLUX FROM THE BRAIN STEM OF THE RAT DURING FEEDING, DRINKING AND LEVER-PRESSING FOR FOOD.** Martin GE, Myers RD *Pharmacol Biochem Behav* 4: 551-60, May 76 (Eng) DL/76NOV220

**Myers RE**

**CHANGES IN CORTICAL SUBARACHNOID FLUID POTASSIUM CONCENTRATIONS DURING HYPOXIA.** Kirshner HS, Blank WF Jr, Myers RE *Arch Neurol* 33: 84-90, Feb 76 (Eng) DL/76NOV633

**Myshkin I**

**[POSTOPERATIVE GLYCEMIC REACTIONS AND THEIR PROGNOSIS IN PATIENTS WITH CONCOMITANT DIABETES MELLITUS]** Myshkin I, Lisenkov VP *Vestn Khir* 116: 97-9, May 76 (Rus) DL/76NOV266

**ADAPTATION, PHYSIOLOGICAL; DIABETES MELLITUS (blood); HYPERGLYCEMIA (etiology); PROGNOSIS; STRESS (blood); SURGERY, OPERATIVE.**

**Naeije R**

**TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES.** Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

**Naftalin RJ**

**THE EFFECTS OF REMOVAL OF SODIUM IONS FROM THE MUCOSAL SOLUTION ON SUGAR ABSORPTION BY RABBIT ILEUM.** Naftalin RJ, Holman GD *Biochim Biophys Acta* 419: 385-90, 21 Jan 76 (Eng) \*DL/76NOV429

**ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CHOLINE (pharmacodynamics); GALACTOSE (metabolism); ILEUM (metabolism, drug effects); INTESTINAL MUCOSA (metabolism, drug effects); METHYLGALACTOSIDES (metabolism); METHYLGLYCOSIDES (metabolism); RABBITS; SODIUM (pharmacodynamics).**

## Diabetes Literature—Author Index

### Nogano M

#### Nagano M

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N *Recent Adv Stud Cardiac Struct Metab* 8: 293-300, 1975 (Eng) \*DL/76NOV576

ADENOSINE DIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; HEMODYNAMICS; MALE; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism, ultrastructure); OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION; RATS; STRESS (metabolism).

#### Nagata N

ACTIVATION BY GTP OF LIVER ADENYLYL CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP. Kimura N, Nakano K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMULATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

#### Najarian J

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbossa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

#### Najarian JS

SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS. Matus AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, Aug 76 (Eng) DL/76NOV251

RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT. Shone AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

#### Nakagawa K

ROLE OF TAURINE IN ADRENAL GLAND: A PREVENTIVE EFFECT ON STRESS-INDUCED RELEASE OF CATECHOLAMINES FROM CHROMAFFIN GRANULES. pp 335-45. Kuriyama K, Nakagawa K *In 0 Huxtable R, Barbeau A, ed. Taurine. New York, Raven Press, 1975 W3 IN923E 1975t. (Eng) \*DL/76NOV639*

#### Nakane K

ACTIVATION BY GTP OF LIVER ADENYLYL CYCLASE IN THE PRESENCE OF HIGH CONCENTRATIONS OF ATP. Kimura N, Nakano K, Nagata N *Biochem Biophys Res Commun* 70: 1250-6, 21 Jun 76 (Eng) DL/76NOV376

#### Nakanishi S

DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHESIZING POLYSOMES IN RAT LIVER. Nakanishi S, Tanabe T, Horikawa S, Numa S *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

ACETYL COA CARBOXYLASE (biosynthesis, immunology); ALLOXAN DIABETES (metabolism); ANIMAL EXPERIMENTS (analysis); ANTIGEN-ANTIBODY REACTIONS; DIET; FASTING; INSULIN (pharmacodynamics); LIGASES (biosynthesis); LIVER (metabolism, ultrastructure); MALE; POLYRIBOSOMES (metabolism); RATS.

#### Nakano H

ENZYMATIC DISSOCIATION AND SHORT-TERM CULTURE OF ISOLATED RAT ANTERIOR PITUITARY CELLS FOR STUDIES ON THE CONTROL OF HORMONE SECRETION. Nakano H, Fawcett CP, McCann SM *Endocrinology* 98: 278-88, Feb 76 (Eng) \*DL/76NOV576

ANIMAL EXPERIMENTS; CELL ADHESION (drug effects); CELL SEPARATION (methods); CELL SURVIVAL; CELLS, CULTURED; CLOSTRIDIOPeptidase A (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; ENDOCRINOLOGY (methods); FEMALE; FSH (secretion); GONADOTROPINS, PITUITARY (secretion); HORMONES, SYNTHETIC (pharmacodynamics); HYALURONIDASE (pharmacodynamics); KINETICS; LH (secretion); LH-FSH RELEASING HORMONE (pharmacodynamics); MALE; PITUITARY GLAND (cytology); PITUITARY GLAND, ANTERIOR (cytology, secretion); POTASSIUM (pharmacodynamics); PROLACTIN (secretion); RATS; THEOPHYLLINE (pharmacodynamics); THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

#### Nakao K

SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY. Miyata M, Yamamoto T, Nakao K *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

#### Nakhoda AF

METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH LIPID IN MAN. COMPARISON WITH GLUCOSE. Jeejeebhoy KN, Anderson GH, Nakhoda AF, Greenberg GR, Sanderson I, Marliis EB *J Clin Invest* 57: 125-36, Jan 76 (Eng) \*DL/76NOV659

#### Nardoni C

[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSL)] Violante A, Nardoni C, Lenza G *Ann Ist Super Sanita 10: 171-7, 1974 (Ita)* DL/76NOV322

#### Natali PG

CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL BLOOD LYMPHOCYTES. Apollonj MC, Vasile C, Floridi A, Natali PG *Immunol Commun* 4: 453-63, 1975 (Eng) \*DL/76NOV654

#### Nathans A

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner D *Ciba Found Symp 41: 7-30, 1976 (Eng)* [89] DL/76NOV46

#### Navins JP

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

#### Neely WE

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

AUTOANALYSIS (instrumentation); BLOOD SUGAR (analysis); COLORIMETRY (instrumentation, methods); EVALUATION STUDIES.

#### Neely JR

RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM. Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

ADENOSINE TRIPHOSPHATE (biosynthesis); ANIMAL EXPERIMENTS; ANOXIA (metabolism); CORONARY CIRCULATION; CORONARY DISEASE (metabolism); CORONARY VESSELS (metabolism); FATTY ACIDS (metabolism); GLUCOSE (metabolism); GLYCOGEN (metabolism); GLYCOLYSIS, OXIDATION-REDUCTION; OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION; PALMITATES (metabolism); PERfusion; RATS; SWINE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS. Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) \*DL/76NOV616

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CARBOHYDRATES (metabolism); CORONARY CIRCULATION; CORONARY DISEASE (metabolism); FATTY ACIDS (metabolism); GLUCOSE (metabolism); GLYCOLYSIS; LACTATES (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PERfusion; PYRUVATES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

#### Neifakh SA

[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA] Neifakh SA, Puchkova LV *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; ENGLISH ABSTRACT; FRUCTOSEOPHOSPHATES (pharmacodynamics); HEXOSEDIPHOPHATES (pharmacodynamics); KINETICS; MITOCHONDRIA, LIVER (metabolism, drug effects); MOLECULAR WEIGHT; POLYRIBOSOMES (metabolism, drug effects); PROTEINS (biosynthesis); RATS; RNA (biosynthesis); TRANSCRIPTION, GENETIC (drug effects); TRANSLATION, GENETIC (drug effects).

#### Nevraeva OG

[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES] Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevraeva OG *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

#### Nicholls DG

THE BIOENERGETICS OF BROWN ADIPOSE TISSUE MITOCHONDRIA. Nicholls DG *FEBS Lett* 61: 103-110, 15 Jan 76 (Eng) [43] \*DL/76NOV484

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; BROWN FAT (metabolism); CELL MEMBRANE PERMEABILITY; CHLORIDES (metabolism); ELECTRIC CONDUCTIVITY; ENERGY TRANSFER; HAMSTERS; MEMBRANES (metabolism, physiology); MITOCHONDRIA (metabolism); NUCLEOTIDES (metabolism); OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION; RATS; REVIEW; SPECIES SPECIFICITY.

#### Nicholson JF

THE PREVENTION OF POSTPRANDIAL SEIZURES IN CHILDREN. Chutorian AM, Nicholson JF *Dev Med Child Neurol* 18: 351-7, Jun 76 (Eng) DL/76NOV58

## Diabetes Literature—Author Index

Ogawa N

Nicolau V

[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT] Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrilic F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

Nielsen FU

DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS. Roed-Petersen K, Thaysen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE. Thaysen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

Nielsen SL

CAPILLARY FILTRATION COEFFICIENT IN SHORT AND LONG-TERM DIABETES. Nielsen SL, Poulsen HL *Bibl Anat* 13: 78-9, 1975 (Eng) DL/76NOV354

BODY WATER (metabolism); CAPILLARY PERMEABILITY; DIABETES MELLITUS (physiopathology); HUMAN; TIME FACTORS.

FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE. Palm T, Nielsen SL, Lassen NA, Sander EH *Bibl Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

Nimmo HG

PROTEIN PHOSPHORYLATION AND HORMONE ACTION. Cohen P, Antoniw JF, Nimmo HG, Yeaman SJ *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41

Nishikubo M

ENDOCRINE STUDIES IN DEPRESSION. pp. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmeri F, Quagliariello E *Int'l Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391

Nishiwaki H

[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL] Sakasaki S, Umeyama K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

Nnanyelugo DO

MUSCLE AND LIVER PROTEIN METABOLISM IN RATS TREATED WITH GLUCOCORTICOIDS. Millward DJ, Nnanyelugo DO, Bates P, Heard CJ *Proc Nutr Soc* 35: 47a, May 76 (Eng) DL/76NOV217

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

Noakes D

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyean IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

Nolan G

OBSERVATIONS ON SEVERE RHESUS HAEMOLYTIC DISEASE. Matthews TG, Nolan G, O'Sullivan BJ *Ir Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

Noreen H

HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY. Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

Norman R

TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE. Green H, Bishop P, Houston M, McKillop R, Norman R, Stothart P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

Notelovitz M

PLASMA INSULIN RESPONSE FOLLOWING ORAL AND INTRAVENOUS GLUCOSE IN PREGNANT DIABETIC WOMEN. Notelovitz M, James S *Obstet Gynecol* 48: 268-73, Sep 76 (Eng) DL/76NOV196

ADMINISTRATION, ORAL; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (pharmacodynamics); HUMAN; INJECTIONS; INTRAVENOUS; INSULIN (blood, physiology, secretion); ISLANDS OF LANGERHANS (secretion); PREGNANCY IN DIABETES (blood); PREGNANCY TRIMESTER, THIRD; PREGNANCY; RACIAL STOCKS; SOUTH AFRICA.

Novarini A

GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE. Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavatorta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

Nowakowski T

[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD] Nowakowski T, Wasikowa R *Kinderarzt Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

CHILD; DIABETES MELLITUS, JUVENILE; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MALE; PREDIABETIC STATE; REMISSION; TIME FACTORS; TYPHOID (complications); VACCINATION.

Nowlis GH

HUMAN NEWBORNS DIFFERENTIATE DIFFERENT CONCENTRATIONS OF SUCROSE AND GLUCOSE. Nowlis GH, Kessen W *Science* 191: 865-6, 27 Feb 76 (Eng) \*DL/76NOV587

CHEMORECEPTORS (physiology); GLUCOSE; HUMAN; INFANT; NEWBORN; SUCKING BEHAVIOR (physiology); SUCROSE; TASTE (physiology); TONGUE (innervation); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Nue I

[LETTER: GLUCOSE ANALYSIS IN BLOOD AND SERUM WITH THE BM-TESTMETER] Nue I, Wulff AM, Bungsbaek K *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

BLOOD CHEMICAL ANALYSIS (instrumentation); BLOOD SUGAR (analysis); COMPARATIVE STUDY.

Nuti R

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL TRANSPORT OF RADIocalcium] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV3

Ochi Y

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. pp. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzik C, Geck P, Pfeiffer B *In0 Hatotani N, ed. Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395

OConnor KJ

THE PURIFICATION AND BIOLOGICAL PROPERTIES OF PANCREATIC BIG GLUCAGON. O'Connor KJ, Lazarus NR *Biochem J* 156: 265-77, 15 May 76 (Eng) DL/76NOV364

ADENYL CYCLASE (analysis); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); CATTLE; CELL MEMBRANE (analysis); DOGS; ELECTROPHORESIS; POLYACRYLAMIDE GEL; GLUCAGON (immunology, isolation & purification); HALFLIFE; INSULIN (analysis); ISLANDS OF LANGERHANS (analysis, enzymology); LIPIDS (analysis); MOLECULAR WEIGHT; PANCREAS (analysis); RATS; RECEPTORS, HORMONE; TRYPSIN; TURKEYS.

STUDIES ON THE BIOSYNTHESIS OF PANCREATIC GLUCAGON IN THE PIGEON (COLUMBA LIVIA). O'Connor KJ, Lazarus NR *Biochem J* 156: 279-88, 15 May 76 (Eng) DL/76NOV365

ANIMAL EXPERIMENTS (analysis); CATTLE; CYCLOHEXIMIDE (pharmacodynamics); DOGS; GLUCAGON (biosynthesis, blood, immunology, secretion); GLUCOSE (pharmacodynamics); IN VITRO; ISLANDS OF LANGERHANS (drug effects, metabolism); LEUCINE (metabolism); MOLECULAR WEIGHT; PANCREAS (metabolism); PIGEONS; TRYPTOPHAN (metabolism); TURKEYS.

O'Donnell TF Jr

EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

ANIMAL EXPERIMENTS; COMPARATIVE STUDY; DISEASE MODELS, ANIMAL; GLUCONEOGENESIS; HUMAN; SHOCK; ENDOTOXIC (metabolism); SWINE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Oganov RG

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganov RG, Aleksandrov AA, Vinogradova NV, Korochkin IM *Kardiologija* 15: 91-100, Sep 75 (Rus) DL/76NOV152

ADULT; AGED; ANTIGENS; BLOOD SUGAR (analysis); CATECHOLAMINES (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERGLYCEMIA (etiology); INSULIN (blood, deficiency, immunology); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood, complications).

Ogata E

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

Ogawa N

[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPMIN. (2) ANALYSIS OF ITS MODE OF ACTION] Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

## Diabetes Literature—Author Index

### Ohgo S

Ohgo S

**SUPPRESSION BY THYROTROPIN-RELEASING HORMONE (TRH) OF GROWTH HORMONE RELEASE INDUCED BY ARGinine AND INSULIN-INDUCED HYPOGLYCEMIA IN MAN.** Maeda K, Kato Y, Chihara K, Ohgo S, Iwasaki Y *J Clin Endocrinol Metab* 43: 453-6, Aug 76 (Eng) DL/76NOV100

### Ohneda A

**PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY.** Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

**ANIMAL EXPERIMENTS (analysis); ANTIGENS; BIOLOGICAL ASSAY; DOGS; GLUCAGON (immunology, isolation & purification, pharmacodynamics); ILEUM (physiology); INSULIN (blood); INTESTINAL MUCOSA (physiology); JEJUNUM (physiology).**

### Ohnishi H

**[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPMIN. (2) ANALYSIS OF ITS MODE OF ACTION]** Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

**ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; ARRHYTHMIA (chemically induced); BLOOD SUGAR (metabolism); CALCIUM CHLORIDE; CATECHOLAMINES (metabolism); CATS; CATTLE; CORONARY CIRCULATION (drug effects); DOPAMINE BETA HYDROXYLASE (metabolism); ENGLISH ABSTRACT; EPINEPHRINE; FEMALE; GLYCOGEN (metabolism); IN VITRO; ISOPROTERENOL (pharmacodynamics); MALE; MONOAMINE OXIDASE (metabolism); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIAL INFARCT (metabolism); MYOCARDIUM (metabolism); PLATELET AGGREGATION (drug effects); PROPRANOLOL (pharmacodynamics); PYRIMIDINES (pharmacodynamics); RABBITS; RATS; TRAPMIN (pharmacodynamics); VASODILATOR AGENTS (pharmacodynamics); VASOPRESSIN (pharmacodynamics).**

### Oka H

**ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOTHYROIDOTROPIC HORMONES.** PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N *Inn Hatotani N, ed. Psychoneuroendocrinology.* Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411

**EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES.** Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

### Okamoto M

**ALDOSTERONE RESPONSE TO HYPOGLYCEMIA: EVIDENCE OF ACTH MEDIATION.** Hata S, Kunita H, Okamoto M *J Clin Endocrinol Metab* 43: 173-7, Jul 76 (Eng) DL/76NOV94

### Olefsky JM

**INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS.** Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

**ADULT; BINDING SITES; CELL MEMBRANE (metabolism); DIABETES MELLITUS (metabolism); FEMALE; HUMAN; INSULIN (metabolism); LEUKOCYTES (metabolism); MALE; MIDDLE AGE; MONOCYTES**

(metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

**THE EFFECTS OF SPONTANEOUS OBESITY ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION OF ISOLATED RAT ADIPOCYTES.** Olefsky JM *J Clin Invest* 57: 842-51, Apr 76 (Eng) DL/76NOV104

**ADULT; DISSOLVE (pathology); ANIMAL EXPERIMENTS (analysis); BINDING SITES; BIOLOGICAL TRANSPORT; DEOXYGLUCOSE (metabolism); GLUCOSE (metabolism); INSULIN (metabolism); MALE; OBESITY (metabolism); OXIDATION-REDUCTION; PROTEIN BINDING; RATS; RECEPTORS; HORMONE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).**

### Olianas M

**POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN.** Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

### Oliver MF

**EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS.** Mjos OD, Miller NE, Riemsma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

### Omran AR

**HEALTH RATIONALE FOR FAMILY PLANNING.** PP. 117-55. Omran AR *Inn Bloch L, ed. Population change a strategy for physicians.* Washington, Assoc of American Medical Colleges, 1975. HV 766 1618p 1974. (Eng) DL/76NOV115

**BIRTH ORDER; BIRTH WEIGHT; CHILD DEVELOPMENT; DEVELOPING COUNTRIES; EUROPE; FAMILY CHARACTERISTICS; FAMILY PLANNING; FEMALE; FETAL DEATH; GROWTH HEREDITARY DISEASES (prevention & control); HUMAN; INFANT MORTALITY; INFANT, NEWBORN; MATERNAL AGE; MATERNAL MORTALITY; MENTAL DISORDERS (occurrence); MONOGRAPH (mortality); MORTALITY; NUTRITION DISORDERS (occurrence); PARITY; PREGNANCY IN DIABETES (occurrence); PREGNANCY COMPLICATIONS (in pregnancy); PREGNANCY; PREGNANCY, UNWANTED; UNITED STATES.**

### Onali PL

**POSSIBLE ROLE OF INSULIN IN THE TRANSPORT OF TYROSINE AND TRYPTOPHAN FROM BLOOD TO BRAIN.** Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

### Opienska-Blaith J

**[MAGNESIUM IN BIOLOGY AND MEDICINE]** Opienska-Blaith J, Stankiewicz Z, Kulesza S *Postepy Hig Med Dosw* 29: 665-717, Nov-Dec 75 (Pol) 1/18 \*DL/76NOV563

**AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); CELL MEMBRANE PERMEABILITY; CHEMISTRY; HUMAN; LIPIDS; MAGNESIUM (physiology, metabolism); NUCLEIC ACIDS (metabolism); PROTEINS (metabolism); REVIEW.**

### Opitz K

**[PHARMACOTHERAPEUTIC POSSIBILITIES IN OBESITY]** Opitz K *Med Monatsschr* 29: 530-4, Dec 75 (Ger) \*DL/76NOV668

**APPETITE DEPRESSANTS (therapeutic use); BIGUANIDES (therapeutic use); CARRAGEENAN (therapeutic use); FENFLURAMINE (therapeutic use); GLUCOSE (therapeutic use); GONADOTROPINS, CHORIONIC (therapeutic use); HUMAN; METHYLCELLULOSE (therapeutic use); OBESITY (drug therapy); PROGESTERONE (therapeutic use); SOMATOTROPIN (therapeutic use); THYROID HORMONES (therapeutic use).**

### Oravec D

**[THE RELATIONSHIP BETWEEN UNSATURATED FATTY ACIDS IN BLOOD SERUM, THE THYROID GLAND, MYOCARDIAL INFARCTION, AND HYPERLIPIDEMIA (AUTHORS TRANSL)]** Oravec D, Moravec R *Bratis Lek Listy* 65: 84-94, Jan 76 (Cze) \*DL/76NOV448

**ADULT; AGED; CHROMATOGRAPHY, GAS; ENGLISH ABSTRACT; FATTY ACIDS, UNSATURATED (blood); HUMAN; HYPERLIPIDEMIA (blood); MIDDLE AGE; MYOCARDIAL INFARCT (blood); THYROID DISEASES (blood).**

### Orci L

**MEMBRANE TOPOLOGY AS REVEALED BY THE BINDING OF MACROMOLECULES.** Orci L *Ciba Found Symp* 41: 267-80, 1976 (Eng) DL/76NOV40

**ANIMAL EXPERIMENTS (analysis); BINDING SITES; CELL MEMBRANE (metabolism, ultrastructure); CONCANAVALIN A (metabolism); FREEZE ETCHING; FREEZE FRACTURING; INSULIN (metabolism); ISLANDS OF LANGERHANS (metabolism, ultrastructure); LIVER (metabolism, ultrastructure); MICROSCOPY, ELECTRON; PROTEIN BINDING; RECEPTORS, HORMONE.**

**EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY.** Carpenter JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

**MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS PRESERVED.** Morrison AD, Berwick L, Orci L, Winegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

### Orelko MA

**[STRUCTURE OF THE PAROTID GLAND AND GLYCEMIC CURVES AFTER LIGATION OF STENOSIS DUCT]** Orelko MA, Kolesnikov RN *Stomatologija (Mosk)* 54: 85-6, May-Jun 75 (Rus) \*DL/76NOV593

**ANIMAL EXPERIMENTS; BLOOD SUGAR; ENGLISH ABSTRACT; LIGATION; PAROTID GLAND (anatomy & histology, physiology, metabolism); RABBITS.**

### Orly J

**PROCEEDINGS: A ROLE FOR LIPIDS IN THE ACTIVATION OF ADENYLATE CYCLASE BY CATECHOLAMINE.** Orly J, Schramm M *Isr J Med Sci* 11: 1195, Nov 75 (Eng) \*DL/76NOV656

**ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS; CATECHOLAMINES (metabolism); CELL MEMBRANE (metabolism); ENZYME ACTIVATION; ERYTHROCYTES (enzymology); LIPIDS (metabolism, blood); TURKEYS.**

### Ortwein V

**[GLOMERULAR FILTRATION RATE IN DIABETIC CHILDREN MEASURED BY**

## Diabetes Literature—Author Index

Paris J

**ISOTOPE METHOD** Drexler M, Ortwein V *Orv Hetil* 117: 1878-83, 1 Aug 76 (Hung) DL/76NOV200

**Osnes JB**

**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (blood, metabolism); ANIMAL EXPERIMENTS (analysis); **CHLORPROMAZINE** (pharmacodynamics); **DRUG INTERACTIONS**; **ERYTHROCYTES** (metabolism); **GLUCAGON** (pharmacodynamics); **GLYCOGEN** (pharmacodynamics); **PHOSPHORYLASE** (metabolism); **ISOPROTERENOL** (pharmacodynamics); **LIVER** (metabolism); **MYOCARDIUM** (enzymology, metabolism); **PERFUSION**; **RATS**; **TURKEYS**.

**ADENOSINE 3,5-CYCLED MONOPHOSPHATE IN PERFUSED RAT HEARTS EXPOSED TO ISOPRENALEINE AND DOPAMINE.** Osnes JB, Oye I *Acta Physiol Scand* 96: 100-13, Jan 76 (Eng) \*DL/76NOV607

**ADENINE** (metabolism); **ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (metabolism); ANIMAL EXPERIMENTS; **DOPAMINE** (pharmacodynamics, administration & dosage); **DOSE-RESPONSE RELATIONSHIP**; **DRUG**; **GLYCOGEN PHOSPHORYLASE** (metabolism); **ISOPROTERENOL** (pharmacodynamics, administration & dosage); **MYOCARDIAL CONTRACTION** (drug effects); **MYOCARDIUM** (metabolism); **PERFUSION**; **RATS**; **STIMULATION**, **CHEMICAL**.

**Ostman J**

**PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES.** Lundgren G, Arneb P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

**O'Sullivan BJ**

**OBSERVATIONS ON SEVERE RHESUS HAEMOLYTIC DISEASE.** Matthews TG, Nolan G, O'Sullivan BJ *Ir Med J* 69: 243-5, 29 May 76 (Eng) DL/76NOV83

**Oura E**

**EFFECT OF AERATION ON THE ACTIVITY OF GLUCONEOGENETIC ENZYMES IN SACCHAROMYCES CEREVIAES GROWING UNDER GLUCOSE LIMITATION.** Haarasita S, Oura E *Arch Microbiol* 106: 271-3, 31 Dec 75 (Eng) \*DL/76NOV630

**Ouzilou J**

**STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSCOPY.** Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

**Overath P**

**RANDOMIZATION OF MEMBRANE LIPIDS IN RELATION TO TRANSPORT SYSTEM ASSEMBLY IN ESCHERICHIA COLI.** Thilo L, Overath P *Biochemistry* 15: 328-34, 27 Jan 76 (Eng) \*DL/76NOV424

**Oye I**

**CHLORPROMAZINE AND HORMONAL ELEVATION OF CYCLIC AMP CONTENTS IN TURKEY ERYTHROCYTES AND IN PERFUSED RAT HEART AND LIVER.** Osnes JB, Christoffersen T, Morland J, Oye I *Acta Pharmacol Toxicol (Kbh)* 38: 195-208, Mar 76 (Eng) DL/76NOV296

**ADENOSINE 3,5-CYCLED MONOPHOSPHATE IN PERFUSED RAT HEARTS EXPOSED TO ISOPRENALEINE AND DOPAMINE.** Osnes JB, Oye I *Acta Physiol Scand* 96: 100-13, Jan 76 (Eng) \*DL/76NOV607

**Packard GC**

**EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO.** Packard GC, Randall JG *Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

**ANIMAL EXPERIMENTS (analysis); GLUCOSE** (metabolism); **IN VITRO**; **INSULIN** (pharmacodynamics); **KINETICS**; **LIVER** (metabolism); **RANA PIPIENS**.

**Page MM**

**RECESSIVE INHERITANCE OF DIABETES: THE SYNDROME OF DIABETES INSIPIDUS, DIABETES MELLITUS, OPTIC ATROPHY AND DEAFNESS.** Page MM, Asmal AC, Edwards CR Q *J Med* 69: 505-20, Jul 76 (Eng) DL/76NOV226

**ADOLESCENCE; ADULT; BLADDER** (abnormalities); **DEAFNESS** (familial & genetic); **DIABETES INSIPIDUS** (familial & genetic); **DIABETES MELLITUS** (familial & genetic); **FEMALE**; **GENES**, **RECESSIVE**; **HUMAN**; **HYDRONEPHROSIS** (complications); **MALE**; **OPTIC ATROPHY** (familial & genetic); **OSMOLAR CONCENTRATION**; **PEDIGREE**; **SYNDROME**; **URINE**; **VASOPRESSIN** (deficiency); **WATER DEPRIVATION**.

**Pagliano FM**

**[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS]** Pagliano FM, Bombard R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

**AGED**; **CASE REPORT**; **CHOLESTEROL** (blood); **CLOFIBRATE** (therapeutic use); **ENGLISH ABSTRACT**; **FEMALE**; **GLIBENCLAMIDE** (therapeutic use); **HUMAN**; **HYPOTHYROIDISM** (blood, complications, drug therapy); **LIPIDS** (blood); **OBESITY** IN DIABETES (blood, complications, drug therapy); **PARAPROTEINEMIAS** (complications, drug therapy); **THYROXINE** (therapeutic use); **TRIGLYCERIDES** (blood).

**Pais M**

**[BEHAVIOR OF PLASMA AND URINE CORTISOL AND LIPOLYSIS IN MAN AFTER DRINKING COFFEE]** Avogaro P, Capri C, Pais M, Cazzolato G *Boll Soc Ital Cardiol* 18: 1102-11, 1973 (Ita) \*DL/76NOV420

**Paiva M**

**MOLECULAR TRANSPORT IN THYROID SLICES.** Paiva M, Sande JV, Swilens S, Dumont JE *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) \*DL/76NOV428

**ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; DIFFUSION; DOGS; IN VITRO; INULIN** (metabolism); **KINETICS**; **MATHEMATICS**; **SERUM ALBUMIN**, **BOVINE** (metabolism); **SUCROSE** (metabolism); **THYROID GLAND** (metabolism).

**Palazzuoli V**

**[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS]** Palazzuoli V, Gragnoli G, Favilli R, Tanganeli I, Migliarese G *Boll Soc Ital Biol Sper* 52: 630-5, 15 May 76 (Ita) DL/76NOV2

**ADULT**; **AMINO ACIDS** (metabolism); **ANTIGENS**; **BLOOD SUGAR** (biosynthesis); **HUMAN**; **HYDROCORTISONE** (blood); **INSULIN** (blood); **LEVODOPA** (pharmacodynamics); **LIVER CIRRHOSIS** (blood, metabolism); **LIVER** (metabolism); **MALE**; **MIDDLE AGE**; **SOMATOTROPIN** (blood).

**Palm T**

**FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE.** Palm T, Nielsen SL, Lassen NA, Sander EH *Bibl Anat* 13: 80-1, 1975 (Eng) DL/76NOV355

**BODY WATER** (metabolism); **CAPILLARY PERMEABILITY**; **DIABETES MELLITUS** (physiopathology); **FOREARM** (blood supply); **HUMAN**; **METHODS**, **OSMOSIS**.

**Palmer RF**

**BIOCHEMICAL AND CLINICAL EFFECTS OF METOLAZONE IN CONGESTIVE HEART FAILURE.** Levey BA, Palmer RF *Curr Ther Res* 18: 641-51, Nov 75 (Eng) \*DL/76NOV650

**Palmieri F**

**CARRIER MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA.** PP. 287-306. Fonya A, Ligeti E, Palmieri F, Quagliariello E *In* Gárdos G, Szasz J, ed. *Biomembrane structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV388

**Pampari GC**

**[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]** Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

**Pansini F**

**[IGLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS]** Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O *Med Chir Dig* 5: 215-8, 1976 (Fre) DL/76NOV163

**Pantelakis N**

**PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS.** Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 383-413, Jul 76 (Eng) DL/76NOV193

**Padapdia F**

**[FUNCTION OF THE ENDOCRINE PANCREAS IN HEPATECTOMIZED DOGS]** Cavazzini MG, Papadia F, Banchini E, Marchesi L, Contini S, Pampari GC, Gnudi A, Butturini U *Boll Soc Ital Biol Sper* 52: 685-90, 30 MAY 76 (Ita) DL/76NOV1

**Pageporage NP**

**LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS.** Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Pageporage NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) \*DL/76NOV463

**Papi F**

**[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN]** Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

**ANIMAL EXPERIMENTS** (analysis); **CHOLESTEROL**, **DIETARY**; **ISLANDS OF LANGERHANS** (drug effects); **METFORMIN** (pharmacodynamics); **RABBITS**.

**Paris J**

**[IGLUCOSE AND THE REDUCING SUGARS OF THE HUMAN BILE]** Paris J, Salembier Y, Gerard A, Samso G *Med Chir Dig 4 suppl 1*: 31-4, 1975 (Fre) DL/76NOV162

**BILE** (analysis); **DIABETES MELLITUS** (metabolism); **GLUCOSE OXIDASE** (analysis); **GLUCOSE** (analysis); **HUMAN**.

## Diabetes Literature—Author Index

### Park DM

#### Park DM

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

#### Parra F

SIGMOIDOVESICOCUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON. Parra F, Passaro E *Am J Surg* 132: 105-7, Jul 76 (Eng) DL/76NOV312  
AGED; BLADDER FISTULA (complications); CASE REPORT; COLONIC DISEASES (complications); DIABETES MELLITUS (complications); DIVERTICULITIS, COLONIC (complications); FISTULA (radiography, surgery); HUMAN; INGUINAL HERNIA (surgery); INTESTINAL FISTULA (complications); MALE; SIGMOID; SKIN DISEASES (complications).

#### Passaro E

SIGMOIDOVESICOCUTANEOUS FISTULA COMPLICATING DIVERTICULAR DISEASE OF THE COLON. Parra F, Passaro E *Am J Surg* 132: 105-7, Jul 76 (Eng) DL/76NOV312

#### Patchornik A

COVALENT CHROMATOGRAPHY - THE ISOLATION OF TRYPTOPHANYL CONTAINING PEPTIDES BY NOVEL POLYMERIC REAGENTS. Rubinstein M, Shechter Y, Patchornik A *Biochem Biophys Res Commun* 70: 1257-63, 21 Jun 76 (Eng) DL/76NOV377

#### Patel BD

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadiyal GV, Patel BD, Desai AG *Am J Clin Nutr* 29: 889-94, Aug 76 (Eng) DL/76NOV303

#### Patel DG

ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM. Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

#### Patel YC

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Albert LC, Brawer JR, Patel YC, Reichlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) DL/76NOV467

#### Paul HS

ASSESSMENT OF EFFECT OF STARVATION, GLUCOSE, FATTY ACIDS AND HORMONES ON ALPHA-DECARBOXYLATION OF LEUCINE IN SKELETAL MUSCLE OF RAT. Paul HS, Adibi SA *J Nutr* 106: 1079-88, Aug 76 (Eng) DL/76NOV137

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CARBON DIOXIDE (metabolism); DECARBOXYLATION; EPINEPHRINE (pharmacodynamics); FATTY ACIDS (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); HINDLIMB; HORMONES (pharmacodynamics); INSULIN (pharmacodynamics); LEUCINE (metabolism); MALE; MUSCLES (drug effects, metabolism); OXIDATION-REDUCTION; RATS; STARVATION (metabolism); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

#### Paul I

[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. I COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS] Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

#### Paulin C

GASTROINTESTINAL SOMATOSTATIN CELLS IN THE HUMAN FETUS. Dubois PM, Paulin C *Cell Tissue Res* 166: 179-84, 12 Feb 76 (Eng) \*DL/76NOV455

#### Pearson DV

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN Viable YELLOW OBESIVE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

#### Pedersen PL

ATP-DEPENDENT REACTIONS CATALYZED BY INNER MEMBRANE VESICLES OF RAT LIVER MITOCHONDRIA. KINETICS, SUBSTRATE SPECIFICITY, AND BICARBONATE SENSITIVITY. Pedersen PL *J Biol Chem* 251: 934-40, 25 Feb 76 (Eng) \*DL/76NOV516

ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; BICARBONATES (pharmacodynamics); KINETICS; MALE; MEMBRANES (metabolism, drug effects); MITOCHONDRIA, LIVER (metabolism, drug effects); NITROPHENYL PHOSPHATASE (metabolism); NADH, NADPH OXIDOREDUCTASES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

#### Peeters H

POTENTIAL ANTIPLIOLYTIC ACTIVITY OF SULOCTIDIL. Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

#### Pejchlova M

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkova J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

#### Pelfrene AF

[CANCER OF THE PANCREAS. EPIDEMIOLOGY AND EXPERIMENTAL CARCINOGENESIS] Pelfrene AF *Arch Fr Mal App* 65: 161-8, Mar 76 (Fre) [46] DL/76NOV334  
ADULT; ALCOHOLISM; ANIMAL EXPERIMENTS (analysis); CHOLELITHIASIS (complications); DIABETES MELLITUS (complications); ENVIRONMENT; FEMALE; HUMAN; MALE; MIDDLE AGE; NEOPLASMS, EXPERIMENTAL; ORGAN SPECIFICITY; PANCREATIC NEOPLASMS (complications, occurrence); RATS; REVIEW; SMOKING.

#### Pelletier G

IMMUNOHISTOCHEMICAL LOCALIZATION OF HYPOTHALAMIC HORMONES AT THE ELECTRON MICROSCOPE LEVEL. PP. 433-50. Pelletier G *In: Labrie F, et al., ed. Hypothalamus and endocrine functions. New York, Plenum Press, 1976. WI CU28V3* 1976. (Eng) [23] DL/76NOV126

ANIMAL EXPERIMENTS (analysis); GUINEA PIGS; HYPOTHALAMUS (analysis, ultrastructure); ISLANDS OF LANGERHANS (analysis, ultrastructure); LE-FSH RELEASING

HORMONE (analysis, immunology); MICROSCOPY, ELECTRON; MONOGRAPH (mortality); REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis, immunology); STOMACH (analysis, ultrastructure).

#### Penchev II

INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION. Penchev II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285  
ADULT; AGE FACTORS; AGED; ANTIBODIES; ANTIBODY FORMATION (drug effects); BINDING SITES, ANTIBODY; DIABETES MELLITUS (drug therapy, immunology); HUMAN; INSULIN ANTIBODIES; INSULIN (pharmacodynamics, therapeutic use); MIDDLE AGE.

#### Perazz A

COMPETITION BETWEEN DIFTALONE AND OTHER DRUGS FOR THE BINDING SITE(S) ON HUMAN SERUM ALBUMIN. Assandri A, Perazz A *Med Biol* 54: 187-92, Jun 76 (Eng) DL/76NOV161

#### Pereira MB

EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBES MIDDLE-AGED WOMEN. Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

#### Perez C

[SECRETION OF GROWTH HORMONE IN ACROMEGALY] Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

#### Permutt MA

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroeck J, Chyi R, Boime I, Szczesna E, McWilliams D *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

ANIMAL EXPERIMENTS (analysis); CHROMATOGRAPHY, AFFINITY; FISHES; INSULIN (biosynthesis); ISLANDS OF LANGERHANS (metabolism); MOLECULAR WEIGHT; OLIGODEOXYRIBONUCLEOTIDES; PROINSULIN (biosynthesis); RNA, MESSENGER (isolation & purification, metabolism); SEEDS (metabolism); THYMINE NUCLEOTIDES; TRANSLATION, GENETIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; WHEAT.

#### Perova NV

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

#### Perrelet A

EFFECTS OF INSULIN, GLUCAGON, AND EPINEPHRINE ON THE PLASMA MEMBRANE OF THE WHITE ADIPOSE CELL: A FREEZE-FRACTURE STUDY. Carpenter JL, Perrelet A, Orci L *J Lipid Res* 17: 335-42, Jul 76 (Eng) DL/76NOV132

#### Perroni D

GROWTH HORMONE AND SOMATOMEDIN BEHAVIOUR IN THE NEWBORN. Giordano G, Foppiani E, Minuto F, Perroni D *Acta Endocrinol*

## Diabetes Literature—Author Index

Ponce de Leon H

(Kbh) 81: 449-54, Mar 76 (Eng)  
\*DL/76NOV604

Perry AC

THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST. Scharff TG, Perry AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng)  
\*DL/76NOV567

Pescatori GF

[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN] Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita)  
DL/76NOV4

Peterson MB

MECHANISM OF THE INHIBITION OF MYOCARDIAL PROTEIN SYNTHESIS DURING OXYGEN DEPRIVATION. Leach M, Taegtmeyer H, Peterson MB, Vernick R *Am J Physiol* 230: 120-6, Jan 76 (Eng)  
\*DL/76NOV621

Petuin PA

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhantemirova TS, Bannyi IP, Petuin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) DL/76NOV57

Petro DJ

LETTER: DIAZOXIDE-DIPHENYLHYDANTOIN INTERACTION. Petro DJ, Vannucci RC, Kulkin HE *J Pediatr* 89: 331-2, Aug 76 (Eng)  
DL/76NOV139

CASE REPORT: CHILD, PRESCHOOL;

DIAZOXIDE (therapeutic use);  
DIPHENYLHYDANTOIN (antagonists & inhibitors, therapeutic use); DRUG INTERACTIONS; DRUG THERAPY; COMBINATION; EPILEPSY (drug therapy); HUMAN; HYPOGLYCEMIA (drug therapy); MALE.

Petrov AG

FLEXOELECTRIC MODEL FOR ACTIVE TRANSPORT. PP. 111-25. Petrov AG *In: Vasileva-Popova JG, ed. Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng)  
\*DL/76NOV393

BIOLOGICAL TRANSPORT, ACTIVE; ELASTICITY; MATHEMATICS; MEMBRANE POTENTIALS; MEMBRANES (metabolism); MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MONOGRAPH.

Pfeiffer B

ENERGETIC COUPLING OF AMINO ACID TRANSPORT. PP. 107-15. Heinz E, Pietrzky C, Geck P, Pfeiffer B *In: Gardos G, Szasz I, ed. Biomembranes* 0 structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV392

Pfeiffer EF

IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM. Etzrodi H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seyler's Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

Pieraggi MT

[STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSOPY] Moczar M, Allard R, Ouzilou J, Robert L, Bouissou H, Julian M, Pieraggi MT

*Pathol Biol (Paris)* 24: 329-36, May 76 (Fre)  
DL/76NOV201

Pieschel D

[PLASMA ACTH, STH AND OTHER HORMONE LEVELS IN VARIOUS GROUPS UNDER CHLORMETHIAZOLE, HALOPERIDOL OR RESERPIN LOAD IN ALCOHOL DELIRIUM, ALCOHOLIC HALLUCINATIONS, AND CHRONIC ALCOHOLISM] Dobrzanski T, Pieschel D *Psychiatr Neurol Med Psychol (Leipz)* 28: 26-32, Jan 76 (Ger) DL/76NOV222

Pietrzky C

ENERGETIC COUPLING OF AMINO ACID TRANSPORT. PP. 107-15. Heinz E, Pietrzky C, Geck P, Pfeiffer B *In: Gardos G, Szasz I, ed. Biomembranes* 0 structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV392

Pi-Sunyer FX

RESISTANCE TO KETOSIS DURING PROLONGED FASTING BY RATS FED ON A DIET CONTAINING UNDECANOIC ACID, AN ODD-CARBON-NUMBER FATTY ACID. Pi-Sunyer FX *Br J Nutr* 35: 41-6, Jan 76 (Eng)  
\*DL/76NOV642

ACETOACETATES (blood); ACIDOSIS (prevention & control); ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CORN; DIETARY FATS; FASTING; FATTY ACIDS (pharmacodynamics, metabolism); HYDROXYBUTYRATES (blood); KETOSIS (prevention & control, metabolism); KIDNEY; MALE; OILS; RATS; STRUCTURE-ACTIVITY RELATIONSHIP; TRIGLYCERIDES (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Pineda Cuevas G

[EFFECT OF TOLBUTAMIDE ON PLASMATIC INSULIN AND GLUCOSE IN CHILDREN TREATED WITH DIPHENYLHYDANTOIN (AUTHORS TRANSL.)] Del Valle Nunez CJ, Aguilar Quero F, Garcia De Pesquera F, Pineda Cuevas G *An Esp Pediatr* 9: 273-8, May-Jun 76 (Spa) DL/76NOV321

Pinsky A

PARTIAL CHARACTERIZATION OF A THERMOPHILIC ACTINOMYCETE RENNIN. Laxer S, Pinsky A, Bartoo B *Experientia* 67-75, 1976 (Eng) DL/76NOV55

Plate CA

MUTANT OF *ESCHERICHIA COLI* DEFECTIVE IN RESPONSE TO COLICIN K AND IN ACTIVE TRANSPORT. Plate CA *J Bacteriol* 125: 467-74, Feb 76 (Eng) \*DL/76NOV658  
ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ARGININE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); COLICINS (pharmacodynamics); DRUG RESISTANCE, MICROBIAL; ELECTRON TRANSPORT; *ESCHERICHIA COLI* (metabolism, drug effects, enzymology); GLUCOSE (metabolism); GLUTAMINE (metabolism); METHYLGLUCOSIDES (metabolism); MUTATION; ORGANIDS (metabolism); OXYGEN CONSUMPTION; PROLINE (metabolism); SUCCINATES (metabolism); TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Platonova RD

[CHANGES IN THE CONCENTRATION OF BLOOD SUGAR IN RATS DURING IMMOBILIZATION] Platonova RD, Baskakova GM, Chepurnov SA *Biol Nauki* 37-40, 1975 (Rus)  
\*DL/76NOV443

ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CORTICOTROPIN (secretion); IMMOBILIZATION; MALE; RATS; STRESS (metabolism); TIME FACTORS.

Plotti G

[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS] Primicerio M, Plotti G, Montemurro A, Moneta E, Bompiani A *Ann Ostet Ginecol Med Perinat* 23: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

Poey J

[THE EFFECTS OF ARGININE AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsaer J, Poey J, Bakir F, Reggabi M, Benouniche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

Poffenbarger PL

INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

Pohl SL

IODINATION OF LIVER PLASMA MEMBRANES USING LACTOPEROXIDASE: EFFECTS ON ADENYLATE CYCLASE ACTIVITY. Pohl SL *Proc Soc Exp Biol Med* 152: 327-9, Jul 76 (Eng) DL/76NOV218  
ADENYL CYCLASE (antagonists & inhibitors); CELL MEMBRANE (enzymology, ultrastructure); ENZYME ACTIVATION (drug effects); GLUCAGON (pharmacodynamics); IODINE; LACTOPEROXIDASE (metabolism); RECEPTORS, HORMONE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Pointner H

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulz D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

Pokrovskii BV

[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION] Iudaev NA, Afimogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601

Pollantseva LR

[LEVEL OF IMMUNOREACTIVE INSULIN IN BLOOD SERUM IN CHRONIC KIDNEY DISEASES] Tareev EM, Kothiarov EV, Pollantseva LR, Tatsievskii VA, Nevraeva OG *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

Polley EH

EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC. Apple DJ, Wyhanny GJ, Goldberg MF, Polley EH *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

Pollock HG

ISOLATION AND CHARACTERIZATION OF REPTILIAN INSULIN: PARTIAL AMINO ACID SEQUENCE OF RATTLESNAKE (CROTALUS ATROX) INSULIN. Kimmel JR, Maher MJ, Pollock HG, Vensel WH *Gen Comp Endocrinol* 28: 320-33, Mar 76 (Eng) DL/76NOV62

Ponce de Leon H

THE LIVER IN HUMAN DIABETES. CONCENTRATION OF SOME INDUCED ENZYMES. Cedola N, Cabarrus A, Auciello N, Doris I, Ponce de Leon H, Baylon N *Acta Diabetol Lat 12*: 263-71, Sep-Dec 75 (Eng) DL/76NOV282

## Diabetes Literature—Author Index

Ponz F

Ponz F

**SODIUM DEPENDENCE OF INTESTINAL ACTIVE TRANSPORT OF SUGARS IN SNAIL (CRYPTOMPHALUS HORTENSIS MULLER).** Barber A, Jordana R, Ponz F *Rev Esp Fisiol* 31: 271-5, Dec 75 (Eng) \*DL/76NOV571

Ponsetto C

**PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES.** Rinaudo MT, Ponsetto C, Curto M, Bettia PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84

Portman OW

**ARTERIAL METABOLISM IN PRIMATES.** Portman OW, Illingworth DR *Primates Med* 9: 145-223, 1976 (Eng) [349] \*DL/76NOV672  
**ADENOSINE TRIPHOSPHATE (metabolism); AGING; ANIMAL EXPERIMENTS; AORTA (metabolism); ARTERIES (metabolism, ultrastructure); ARTERIOSCLEROSIS (metabolism); CELL MEMBRANE (metabolism); CELLS, CULTURED; CERCOPITHECUS (metabolism); CHIMPANZEES (metabolism); CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (metabolism); COENZYME A (metabolism); DNA (biosynthesis); ENDOTHELIUM (metabolism); FATTY ACIDS (metabolism); FATTY STREAK, ARTERIAL (metabolism); FEMALE; HUMAN; LECITHINS (metabolism); LIPOPROTEINS, HDL (metabolism); LIPOPROTEINS, LDL (metabolism); LIPOPROTEINS, VLDL (metabolism); LYPOLECITHIN (metabolism); MALE; MONKEYS; PHOSPHOLIPIDS (metabolism); PRIMATES (metabolism); RABBITS; REVIEW; SPHINGOMYELINS (metabolism); SQUIRREL MONKEYS; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

Poshyachinda V

**A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPO-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitn N, Poshyachinda V, Larsson-Cohn U *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

Poulsen HL

**SUBCUTANEOUS INTERSTITIAL FLUID CONCENTRATIONS OF ALBUMIN AND IMMUNOGLOBULIN G IN RELATION TO THE SERUM VALUES IN NORMAL, HYPERTENSIVE AND DIABETIC MEN.** Poulsen HL *Bibl Anat* 13: 74-5, 1975 (Eng) DL/76NOV353  
**ALBUMINS (analysis); DIABETES MELLITUS, JUVENILE (blood, metabolism); EXTRACELLULAR SPACE (analysis); HUMAN; HYPERTENSION (blood, metabolism); IGG (analysis); MALE; SERUM ALBUMIN (analysis).**  
**CAPILLARY FILTRATION COEFFICIENT IN SHORT AND LONG-TERM DIABETES.** Nielsen SL, Poulsen HL *Bibl Anat* 13: 78-9, 1975 (Eng) DL/76NOV354

Powis RL

**GROWTH HORMONE IN CARDIAC HYPERTROPHY INDUCED BY NEPHROGENOUS HYPERTENSION.** Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 413-25, 1975 (Eng) \*DL/76NOV578  
**ANIMAL EXPERIMENTS; BODY WEIGHT; HEART ENLARGEMENT (etiology); HEART VENTRICLE (pathology); HYPERTENSION, RENAL (complications); HYPOPHYSSECTOMY; MALE; ORGAN WEIGHT; RATS; SOMATOTROPIN (physiology); STRESS; THYROID HORMONES (physiology); TRYPTOPHAN (metabolism).**

**THE INFLUENCE OF GROWTH HORMONE ON MYOCARDIAL WEIGHT AND WATER**

**FRACTION IN RATS.** Powis RL *Recent Adv Stud Cardiac Struct Metab* 8: 427-36, 1975 (Eng)

\*DL/76NOV579

**ANIMAL EXPERIMENTS; BODY WEIGHT; HEART ENLARGEMENT (pathology); HEART VENTRICLE (pathology); HEART (drug effects); HYPOPHYSSECTOMY; MALE; MYOCARDIUM (pathology, metabolism); ORGAN WEIGHT (drug effects); RATS; SOMATOTROPIN (pharmacodynamics); WATER (metabolism).**

Poyart C

**EFFECT OF FASTING ON GLUCOSE RECYCLING IN RATS.** Freminet A, Poyart C, Leclerc L, Gentil M *FEBS Lett* 61: 294-7, 15 Jan 76 (Eng) \*DL/76NOV487

Poznansky M

**NONELECTROLYTE DIFFUSION ACROSS LIPID BILAYER SYSTEMS.** Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng) \*DL/76NOV661

**AMIDES; DIFFUSION; ERYTHROCYTES (physiology); HEAT; LECITHINS; LIPOSOMES; MATHEMATICS; MEMBRANES, ARTIFICIAL; PERMEABILITY; UREA.**

Pozuelo Escudero V

**[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION]** Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

Pozzan T

**MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. I. COUPLING BETWEEN WEAK ELECTROLYTE FLUXES.** Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 15-26, 15 Jan 76 (Eng) \*DL/76NOV434

**MECHANISM OF ACTIVE SHRINKAGE IN MITOCHONDRIA. II. COUPLING BETWEEN STRONG ELECTROLYTE FLUXES.** Azzone GF, Massari S, Pozzan T *Biochim Biophys Acta* 423: 27-41, 15 Jan 76 (Eng) \*DL/76NOV435

Pradialer A

**[DRUGS INDUCED HYPOGLYCEMIA]** Dry J, Pradialer A *Sem Hop Ther* 52: 231-4, Apr 76 (Fre) DL/76NOV245

Pratt OE

**THE TRANSPORT OF METABOLIZABLE SUBSTANCES INTO THE LIVING BRAIN.** Pratt OE *Adv Exp Med Biol* 69: 55-75, 1976 (Eng) [59] DL/76NOV300

**AMINO ACID METABOLISM, INBORN ERRORS (metabolism); AMINO ACIDS (metabolism); AMINOACIDURIA, RENAL (metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); BLOOD SUGAR; BLOOD-BRAIN BARRIER (drug effects); BRAIN (drug effects, metabolism); GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (pharmacodynamics); KETONE BODIES (metabolism); LACTATES (metabolism); MONKEYS; NEUROHUMORS (biosynthesis); PAPIO; PHENYLALANINE (blood, pharmacodynamics); PYRUVATES (metabolism); RATS; REVIEW; THYROID HORMONES (physiology); TRYPTOPHAN (metabolism).**

Prelot M

**[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)]** Durand D, Prelot M, Raoul Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483

Preston BJ

**ESOPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS.** Stewart IM, Hosking DJ, Preston BJ, Atkinson M *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

Prieto JC

**HCS REGULATION DURING PREGNANCY.** Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

**ADMINISTRATION, ORAL; ADULT; ARGinine (administration & dosage); BLOOD SUGAR (analysis); COMPARATIVE STUDY; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (blood); PLACENTAL LACTOGEN (blood); PREDIABETIC STATE (blood); PREGNANCY IN DIABETES (blood); PREGNANCY.**

Primicerio M

**[SERUM LEVELS OF 17-BETA ESTRADIOL DEHYDROGENASE IN PREGNANCIES COMPLICATED BY DIABETES MELLITUS]** Primicerio M, Plotti G, Montemurro A, Moneta E, Bompiani A *Ann Ostet Ginecol Med Perinat* 97: 71-5, Mar-Apr 76 (Ita) DL/76NOV324

**ENGLISH ABSTRACT; ESTRADIOL DEHYDROGENASE (blood); FEMALE; GESTATIONAL AGE; HUMAN; HYDROXYSTEROID DEHYDROGENASES (blood); PREGNANCY IN DIABETES (enzymology); PREGNANCY.**

Prins HK

**SEROTONIN UPTAKE AND GLYCOLYTIC ACTIVITY OF HUMAN PLATELETS AFTER PROLONGED INCUBATION WITH GLUCOSE-POOR PLASMA.** Hardeman MR, Prins HK *Haemostasis* 4: 81-93, 1975 (Eng) \*DL/76NOV652

Priore RL

**EFFECTS OF DIETARY SOY OR UREA NITROGEN AND FEEDING FREQUENCY ON NITROGEN METABOLISM, GLUCOSE METABOLISM AND URINARY METABOLITE EXCRETION IN SHEEP.** Priore RL *J Anim Sci* 42: 160-7, Jan 76 (Eng) \*DL/76NOV507

**ANIMAL EXPERIMENTS; ANIMAL FEED; BLOOD SUGAR (analysis); CITRATES (urine); CREATININE (urine); MALE; NITROGEN (metabolism); OROTIC ACID (urine); SHEEP (metabolism, urine); SOY BEANS; TIME FACTORS; UREA (metabolism).**

Privett OS

**FATTY ACID SYNTHESIS FROM 2-14C-ACETATE IN RAT TESTIS MITOCHONDRIAL AND CYTOSOL FRACTIONS IN VITRO.** Haefner EW, Privett OS *Lipids* 10: 814-7, Dec 75 (Eng) \*DL/76NOV665

Protasova TN

**[CYCLIC NUCLEOTIDES AS INTRACELLULAR TRANSMITTERS OF HORMONE ACTION]** Iudaeva NA, Afinogenova SA, Pokrovskii BV, Protasova TN *Usp Sovrem Biol* 80: 351-69, Nov-Dec 75 (Rus) [110] \*DL/76NOV601

Pruitt BA Jr

**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

**ALTERATIONS IN GLUCOSE KINETICS FOLLOWING THERMAL INJURY.** Wilmore DW, Mason AD, Pruitt BA Jr *Surg Forum* 26: 81-3, 1975 (Eng) \*DL/76NOV591

Puchkova LV

**[THE REGULATOR EFFECT OF FRUCTOSE-1,6-DIPHOSPHATE AND CYCLIC ADENOSINE MONOPHOSPHATE ON**

## Diabetes Literature—Author Index

Rauramo L

**PROTEIN AND RNA SYNTHESIS BY ISOLATED MITOCHONDRIA** Neifakh SA, Puchkova LV *Mol Biol (Mosk)* 9: 341-50, May-Jun 75 (Rus) \*DL/76NOV555

**Punnonen R**  
**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalhti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

**Puterman DI**  
**EFFECT OF LOW CALORIE DIET ON THE HYPERLIPIDEMIA, HYPERTENSION, AND LIFE SPAN OF GENETICALLY OBESE RATS.** Koletsky S, Puterman DI *Proc Soc Exp Biol Med* 151: 368-71, Feb 76 (Eng) \*DL/76NOV569

**Quagliariello E**  
**CARRIER-MEDIATED TRANSPORT OF PHOSPHATE IN MITOCHONDRIA.** PP. 287-306. Fonyo A, Ligeti E, Palmieri F, Quagliariello E *Inn Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV388

**Quaroni A**  
**THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS.** PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *Inn Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

**Queener SF**  
**DEMONSTRATION THAT CYCLIC ADENOSINE 3',5'-MONOPHOSPHATE MEDIATES THE LIPOLYTIC ACTION OF PARATHYROID HORMONE.** Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH *Horm Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

**ON THE LIPOLYTIC ACTION OF PARATHYROID HORMONE IN MAN.** Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH *Metabolism* 25: 251-60, Mar 76 (Eng) DL/76NOV549

**Quesenberry W**  
**PITUITARY FUNCTION IN PSEUDOCYCYSIS.** Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV693

**Raggi U**  
**EFFECT OF AN ANTISEROTONINERGIC DRUG, METERGOLINE, ON THE ACTH AND CORTISOL RESPONSE TO INSULIN HYPOGLYCEMIA AND LYSINE-VASOPRESSIN IN MAN.** Cavagnini F, Raggi U, Micossi P, Di Landro A, Invitti C *J Clin Endocrinol Metab* 43: 306-12, Aug 76 (Eng) DL/76NOV99

**Rahal M**  
**[THE EFFECTS OF ARGinine AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS]** Elsair J, Poey J, Bakir F, Reggabi M, Benouiche M, Rahal M *Biomedicine [Express]* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

**Rahn A**  
**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbie K, Rahn A, Schmalz H *Kinderärzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**Rain AA**  
**HYPEROSMOLAR COMA ASSOCIATED WITH CLINICAL LIVER TRANSPLANTATION.** Machado MC, Monteiro da Cunha JE, Margarido NF, Bacchella T, Goncalves L, Raia AA *Int Surg* 61: 368-9, Jun-Jul 76 (Eng) DL/76NOV81

**Raikhman LM**  
**[ION-DEPENDENT CONFORMATIONAL TRANSITIONS IN TRANSPORT ATPASE MEMBRANE PREPARATIONS]** Raikhman LM, Moshkovskii IuS *Mol Biol* 8: 768-74, Sep-Oct 74 (Rus) \*DL/76NOV553

**ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (enzymology, ultrastructure, drug effects); ENGLISH ABSTRACT; ENZYME ACTIVATION (drug effects); OLIGOMYCIN (pharmacodynamics); OUABAIN (pharmacodynamics); PHILIPPINES; POTASSIUM (pharmacodynamics); PROTEIN CONFORMATION; SODIUM (pharmacodynamics); VISCOSITY.**

**Raikova M**  
**CONCERNING THE FATTY AND PROTEIN METABOLISM IN ADVANCED AND OLD AGE.** Conev K, Raikova M, Boneva M *Folia Med (Plovdiv)* 17: 3-8, 1975 (Eng) \*DL/76NOV494

**Rainville D**  
**CHARACTERISTICS OF THE INTERACTION BETWEEN THYROTROPIN-RELEASING HORMONE AND SOMATOSTATIN FOR THYROTROPIN AND PROLACTIN RELEASE.** Drouin J, De Lean A, Rainville D, Lachance R, Labrie F *Endocrinology* 98: 514-21, Feb 76 (Eng) \*DL/76NOV473

**Ramachandran J**  
**HUMAN PITUITARY SOMATOTROPIN: 46. PREPARATION OF TRITIUM LABELLED HORMONE.** Kawauchi H, Bewley TA, Ramachandran J, Li CH *Biochim Biophys Acta* 420: 214-7, 20 Jan 76 (Eng) \*DL/76NOV430

**Ramcharan S**  
**SOME PHYSIOLOGICAL AND BIOCHEMICAL MEASUREMENTS OVER THE MENSTRUAL CYCLE.** PP. 259-75. Freedman SH, Ramcharan S, Hoag E, Goldfien A *Inn Ferin M et al., ed. Biorhythms and human reproduction.* New York, Wiley, 1974. OT 167 B616 1972. (Eng) \*DL/76NOV413

**Randall GC**  
**TISSUE GLYCOGEN AND BLOOD GLUCOSE AND FRUCTOSE LEVELS IN THE PIG FETUS DURING THE SECOND HALF OF GESTATION.** Randall GC, Lecuyer C *Biol Neonate* 28: 74-82, 1976 (Eng) \*DL/76NOV445

**ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); FEMALE; FETUS (metabolism); FRUCTOSE (blood); GESTATIONAL AGE; GLYCOGEN (metabolism); KIDNEY (metabolism); LIVER (metabolism); LUNG (metabolism); MATERNAL-FETAL EXCHANGE; MUSCLES (metabolism); MYOCARDIUM (metabolism); PLACENTA (metabolism); PREGNANCY; SWINE.**

**Randall JG**  
**EFFECT OF INSULIN ON CARBOHYDRATE METABOLISM OF FROG LIVER IN VITRO.** Packard GC, Randall JG *Gen Comp Endocrinol* 28: 368-70, Mar 76 (Eng) DL/76NOV63

**Rannels DE**  
**EFFECTS OF ANOXIA AND SEVERE ISCHEMIA ON THE TURNOVER OF MYOCARDIAL PROTEINS.** Kao R, Rannels DE, Morgan HE *Acta Med Scand [Suppl]* 117-23, 1976 (Eng) \*DL/76NOV611

**Raou Y**  
**[EARLY EFFECTS OF GROWTH HORMONE ON BLOOD AND URINARY INORGANIC PHOSPHORUS IN THE RAT (AUTHORS TRANSL)]** Durand D, Prelot M, Raou Y *Experientia* 32: 120-2, 15 Jan 76 (Fre) \*DL/76NOV483

**Rapoport SM**  
**THE REGULATION OF GLYCOLYSIS IN ERYTHROCYTES.** PP. 195-209. Rapoport SM, Rapoport TA, Heinrich R *Inn Keleti T, ed. Mechanism of action and regulation of enzymes.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV418

**Rapideen Nucleotides (blood); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); DIPHOSPHOGLYCERIC ACIDS (blood); ERYTHROCYTES (metabolism); GLYCOLYSIS; KINETICS; LACTATES (blood); MODELS, BIOLOGICAL; MONOGRAPH; NAD (blood); OXYGEN CONSUMPTION; PHILIPPINES.**

**Rapoport TA**  
**THE REGULATION OF GLYCOLYSIS IN ERYTHROCYTES.** PP. 195-209. Rapoport SM, Rapoport TA, Heinrich R *Inn Keleti T, ed. Mechanism of action and regulation of enzymes.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV418

**Rastogi GK**  
**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

**ADOLESCENCE; ADULT; ANTIBODY FORMATION; ANTIGENS; BLOOD SUGAR; CASE REPORT; FEMALE; GLUCAGON (diagnostic use); GLUCOSE TOLERANCE TEST; HUMAN; HYPERINSULINISM (diagnosis, immunology); INSULIN (immunology); ISLETT CELL TUMOR (blood); MALE; MIDDLE AGE; PANCREAS (immunology); PANCREATIC NEOPLASMS (blood); PROINSULIN (immunology); TOLBUTAMIDE (diagnostic use).**

**Rattazzi L**  
**RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT.** Shons AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV13

**Ratzmann KP**  
**[STUDIES ON LIPID MOBILIZATION IN OBESITY WITHOUT GLUCOSE INTOLERANCE. I. COMMUNICATION. NORADRENALINE-STIMULATED LIPOLYSIS]** Ratzmann KP, Paul I, Meyer LW, Muller F *Endokrinologie* 66: 337-47, Dec 75 (Ger) \*DL/76NOV476

**ADIPOSE TISSUE (metabolism); ADULT; BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLYCERIN (blood); HUMAN; LIPID MOBILIZATION (drug effects); MALE; NOREPINEPHRINE (pharmacodynamics); OBESITY (metabolism); TIME FACTORS.**

**Rauramo L**  
**SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY.** Syvalhti E, Erkkola R, Punnonen R, Rauramo L *Acta Pharmacol Toxicol (Kh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

## Razaka G

Razaka G

[ENZYME ALTERATIONS OF THE ARTERIAL WALL FOLLOWING THE COMBINATION OF A LATHYROGENIC TREATMENT AND OF MODERATE HYPERCHOLESTEROLEMIA IN THE YOUNG RABBIT] Aumailley M, Razaka G, Larue J, Bricaud H *C R Soc Biol (Paris)* 169: 553-8, 1975 (Fre) \*DL/76NOV449

Read BD

INFLUENCE OF MEMBRANE LIPID FLUIDITY ON GLUCOSE AND URIDINE FACILITATED DIFFUSION IN HUMAN ERYTHROCYTES. Read BD, McElhaney RN *Biochim Biophys Acta* 419: 331-41, 21 Jun 76 (Eng) \*DL/76NOV427  
BIOLOGICAL TRANSPORT: BLOOD SUGAR (metabolism); CELL MEMBRANE (metabolism, ultrastructure, drug effects); CHOLESTENONES (pharmacodynamics); CHOLESTEROL (pharmacodynamics); DIFFUSION; ERYTHROCYTES (metabolism); HUMAN; KINETICS; PHOSPHATIDYL CHOLINE (pharmacodynamics); URIDINE (blood).

Reaven GM

INSULIN BINDING TO MONOCYTES AND TOTAL MONONUCLEAR LEUKOCYTES FROM NORMAL AND DIABETIC PATIENTS. Olefsky JM, Reaven GM *J Clin Endocrinol Metab* 43: 226-31, Jul 76 (Eng) DL/76NOV97

Rebar RW

PITUITARY FUNCTION IN PSEUDOCYSESIS. Yen SS, Rebar RW, Quesenberry W *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

Rebuzzi AG

[PLASMA INSULIN AND GH DURING ORAL GLUCOSE LOAD IN LIVER CIRRHOSIS] Greco AV, Ghirlanda G, Altomonte L, Manna R, Rebuzzi AG *Minerva Med* 67: 226-72, 21 Jul 76 (Ita) DL/76NOV188

Redisch W

EVALUATION OF THE USE OF MICROCIRCULATORY FINDINGS IN THE ANALYSIS OF CLINICAL DISEASE. Redisch W, Rouen LR, Terry EN, Clauss RH *Bibl Anat* 13: 362-3, 1975 (Eng) DL/76NOV352  
CAPILLARIES (ultrastructure); COLLAGEN DISEASES (pathology, physiopathology); DIABETES MELLITUS (pathology, physiopathology); HUMAN; MICROCIRCULATION (physiopathology).

Rees LH

LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

Reggabi M

[THE EFFECTS OF ARGinine AND GROWTH HORMONE ON THE NITROGEN BALANCE OF RATS] Elsair J, Poey J, Bakir F, Reggabi M, Benouniche M, Rahal M *Biomedicine (Express)* 23: 201-5, 30 Jun 75 (Fre) \*DL/76NOV446

Reichlin S

SOMATOSTATINERGIC NEURONS IN ANTERIOR HYPOTHALAMUS: IMMUNOHISTOCHEMICAL LOCALIZATION. Alper LC, Brawer JR, Patel YC, Reichlin S *Endocrinology* 98: 255-8, Jan 76 (Eng) \*DL/76NOV467

Reisner S

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spannake EB, Reisner S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

## Diabetes Literature—Author Index

Reitsma WD

THE INTRIGUING STORY OF SOMATOSTATIN. Reitsma WD *Neth J Med* 19: 1-4, 1976 (Eng) \*DL/76NOV559  
ACROMEGALY (drug therapy); ANIMAL EXPERIMENTS; BABOONS; HUMAN; SOMATOTROPIN RELEASE INHIBITING HORMONE (therapeutic use, physiology).

Renaud L

EFFECTS OF AMINONUCLEOSIDE, DAUNOMYCIN, AND ADRIAMYCIN ON CARBON OXIDATION BY GLOMERULI. Kaplan BS, Renaud L, Drummond KN *Lab Invest* 34: 174-8, Feb 76 (Eng) \*DL/76NOV543

Renaud LP

PULSATILE GROWTH HORMONE SECRETION: SUPPRESSION BY HYPOTHALAMIC VENTROMEDIAL LESIONS AND BY LONG-ACTING SOMATOSTATIN. Martin JB, Renaud LP, Brazeau P *Jr Science* 186: 538-40, 8 Nov 74 (Eng) \*DL/76NOV585

Renk IW

[EXHALATION DIAGNOSIS WITH C14 TAGGED COMPOUNDS, METHODS AND RESULTS] Lutolf UM, Glanzmann C, Renk IW, Horst W *Schweiz Med Wochenschr* 105: 729-36, 7 Jun 75 (Ger) \*DL/76NOV583

Rennie MJ

DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS. Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT. Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) DL/76NOV373

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); CITRATES (analysis); EXERTION; FATTY ACIDS (blood, pharmacodynamics); GLUCAGON (blood); GLYCOGEN (metabolism); INSULIN (blood); LACTATES (analysis); LIVER GLYCOGEN (metabolism); MALE; MUSCLES (drug effects); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Rich T

EFFECS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM. Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

Richard JL

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warnet JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

Richman R

ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM. Yu S, Friedman Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV527

Richter I

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowsky H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbe K, Rahm A, Schmalz H *Kinderarzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

Riddick DH

DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANS SYNDROME AND ASSOCIATED CARDIAC ANOMALY. Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

Riemersma RA

EFFECTS OF P-CHLOROPHENOXYSOBUTYRATE ON MYOCARDIAL FREE FATTY ACID EXTRACTION, VENTRICULAR BLOOD FLOW, AND EPICARDIAL ST-SEGMENT ELEVATION DURING CORONARY OCCLUSION IN DOGS. Mjor OD, Miller NE, Riemersma RA, Oliver MF *Circulation* 53: 494-500, Mar 76 (Eng) \*DL/76NOV457

Rimoin DL

INHERITANCE OF DIABETES MELLITUS. Zonana J, Rimoin DL *N Engl J Med* 295: 603-5, 9 Sep 76 (Eng) DL/76NOV180

Rinoudo MT

PROCEEDINGS: RAT BRAIN SUGAR METABOLISM FOLLOWING ALLOXAN-INDUCED DIABETES. Rinoudo MT, Ponzetto C, Curto M, Bettarini PG *Ital J Biochem* 25: 178-9, Mar-Apr 76 (Eng) DL/76NOV84  
ADENINE NUCLEOTIDES (metabolism); ALLOXAN DIABETES (metabolism); ANIMAL EXPERIMENTS (analysis); BRAIN (drug effects, metabolism); CARBOHYDRATES (metabolism); HYDROXYACETONE PHOSPHATE (metabolism); GLUCOSE (metabolism); GLYCOGEN (biosynthesis); HYDROXYBUTYRATES (metabolism); INSULIN (pharmacodynamics); LACTATES (metabolism); RATS.

Rinderknecht E

POLYPEPTIDES WITH NONSUPPRESSIBLE INSULIN-LIKE AND CELL-GROWTH PROMOTING ACTIVITIES IN HUMAN SERUM: ISOLATION, CHEMICAL CHARACTERIZATION, AND SOME BIOLOGICAL PROPERTIES OF FORMS I AND II. Rinderknecht E, Humbel RE *Proc Natl Acad Sci USA* 73: 2365-9, Jul 76 (Eng) DL/76NOV215

AMINO ACIDS (analysis); BLOOD PROTEINS (analysis, isolation & purification, pharmacodynamics); DNA (biosynthesis); ELECTROPHORESIS; POLYACRYLAMIDE GEL; GROWTH SUBSTANCES; HEAT; HORMONES; HUMAN; INSULIN; MOLECULAR WEIGHT; PEPTIDES.

Rinehart CA

ENERGY COUPLING IN THE ACTIVE TRANSPORT OF AMINO ACIDS BY BACTERIOHODOPSIN-CONTAINING CELLS OF HALOBACTERIUM HOLODIUM. Hubbard JS, Rinehart CA, Baker RA *J Bacteriol* 125: 181-90, Jan 76 (Eng) \*DL/76NOV657

Ringen D

PANCREATIC TRANSPLANTATION FOR DIABETES MELLITUS. DISCUSSION OF INDICATIONS AND SURGICAL TECHNIQUE WITH REFERENCE TO 3 CASES. Lundgren G, Arne P, Groth CG, Hardstedt C, Lewander R, Ringden O, Ostman J *Scand J Urol Nephrol* 63-5, 6-7 Mar 75 (Eng) DL/76NOV242

Ringsdorf WM Jr

LETTER: PAINFUL TEETH AND DYSGLYCEMIA. Ringsdorf WM Jr, Cheraskin E *JAMA* 231: 23-4, 6 Jan 75 (Eng) \*DL/76NOV541

BLOOD SUGAR; FEMALE; HOMEOSTASIS; HUMAN; MALE; ORAL MANIFESTATIONS; PAIN (diagnosis); PERCUSSION; TOOTH.

Rivers RP

DEFECT OF PLATELET FUNCTION ASSOCIATED WITH CHRONIC

## Diabetes Literature—Author Index

Rouvillois JL

**HYPOLYCAEMIA.** Hutton RA, Macnab AJ, Rivers RP *Arch Dis Child* 51: 49-55, Jan 76 (Eng) DL/76NOV329

**Roba J**

**POTENTIAL ANTI-LIPOLYTIC ACTIVITY OF SULOCOTIDIL.** Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

**Robe K**

**RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD.** Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbe K, Rahn A, Schmalz H *Kinderarzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**Robert L**

**STRUCTURAL AND BIOCHEMICAL ALTERATIONS OF HUMAN DIABETIC DERMIS STUDIED BY H-LYSINE INCORPORATION AND MICROSOPY.** Moczar M, Allard R, Ouzilou J, Robert L, Bouisou H, Julian M, Pieraggi MT *Pathol Biol (Paris)* 24: 329-36, May 76 (Fre) DL/76NOV201

**Roberts JL**

**ANALYSIS AND OUTCOME OF 1063 PATIENTS TRAINED FOR HOME HEMODIALYSIS.** Roberts JL *Kidney Int* 9: 363-74, Apr 76 (Eng) DL/76NOV153

**ACTIVITIES OF DAILY LIVING;** ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; DEMOGRAPHY; DIABETIC NEPHROPATHIES (mortality); EDUCATIONAL STATUS; FEMALE; GLOMERULONEPHRITIS (mortality); HEMODIALYSIS, HOME (standards); HUMAN; HYPERTENSION, RENAL (mortality); KIDNEY FAILURE, CHRONIC (mortality, rehabilitation); KIDNEY, POLYCYSTIC (mortality); MALE; MIDDLE AGE; PATIENTS (education); PYELONEPHRITIS (mortality); SEX FACTORS; TIME FACTORS.

**Robertson CR**

**EFFECT OF IONIC POLARIZABILITY ON ELECTRODIFUSION IN LIPID BILAYER MEMBRANES.** Bradshaw RW, Robertson CR *J Membr Biol* 25: 93-114, 4 Dec 75 (Eng) \*DL/76NOV540

**Robinson DS**

**THE CONTROL OF LIPOPROTEIN LIPASE.** pp. 102-10. Cryer A, Davies P, Robinson DS *Int Hautvast JGAI*, et al., ed. *Blood and arterial wall in atherosclerosis and arterial thrombosis.* Leiden, Brill, 1975. WG 550 B655 1974. (Eng) [21] DL/76NOV122

**Robinson RR**

**ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERURICEMIA IN THE RAT.** Spencer HW, Yarger WE, Robinson RR *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

**Robyn C**

**PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN.** Copinschi G, Leclercq-Meyer V, Virasoro E, L'Hermitte M, Vanhaest L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

**Roed-Petersen K**

**DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS.** Roed-Petersen K, Thayssen P, Nielsen FU, Kemp E *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

**ADULT; AGED; DIABETES MELLITUS** (complications, drug therapy); FEMALE;

**HEMODIALYSIS; HUMAN; INSULIN** (therapeutic use); MALE; MIDDLE AGE; PERITONEAL DIALYSIS; UREMIA (etiology, therapy).

**RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN REQUIRING DIABETES AND RENAL FAILURE.** Thayssen P, Roed-Petersen K, Nielsen FU, Kemp E *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

**Rogala E**

**IMMUNOLOGICAL DISORDERS IN DYSGAMMAGLOBULINEMIA TYPE VII IN A DIABETIC PATIENT.** Rogala E, Felus E, Wiegli A *Pol Tyg Lek* 31: 793-5, 10 May 76 (Pol) DL/76NOV205

**DIABETES MELLITUS** (complications); DYSGAMMAGLOBULINEMIA (complications, immunology); ENGLISH ABSTRACT; FEMALE; HUMAN; IGA (analysis); IGG (analysis); IGM (analysis); IMMUNOLOGIC DEFICIENCY SYNDROMES (immunology); MALE.

**Rohwedder WK**

**DUAL-LABELED TECHNIQUE FOR HUMAN LIPID METABOLISM STUDIES USING DEUTERATED FATTY ACID ISOMERS.** Emken EA, Rohwedder WK, Dutton HJ *HJ Lipids* 11: 135-42, Feb 76 (Eng) \*DL/76NOV548

**Rojas-Hidalgo E**

**URINARY INFECTION AND DIABETES MELLITUS. CLINICAL ASPECTS, TREATMENT AND COMPLICATIONS. CONCLUSIONS.** Gomez-Arnau JL, Rojas-Hidalgo E *Rev Clin Esp* 141: 441-8, 15 Jun 76 (Spa) DL/76NOV229

**Rommel K**

**ORAL GLUCOSE TOLERANCE TEST WITH A MIXTURE OF OLIGOSACCHARIDES AFTER PARTIAL GASTRECTOMY (AUTHORS TRANSL).** Wepler R, Rommel K *Klin Wochenschr* 54: 633-5, 1 Jul 76 (Ger) DL/76NOV157

**Roncucci R**

**POTENTIAL ANTI-LIPOLYTIC ACTIVITY OF SULOCOTIDIL.** Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

**ADIPOSE TISSUE** (drug effects, metabolism); ANIMAL EXPERIMENTS; CLOFIBRATE (pharmacodynamics); COMPARATIVE STUDY; EPIDIDYMIS; FATTY ACIDS, NONESTERIFIED (metabolism); IN VITRO; NICOTINIC ACIDS (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); PROPANOLAMINES (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; THEOPHYLLINE (pharmacodynamics).

**Rootman J**

**CLINICO-PATHOLOGICAL STUDY OF AN ORGANIZED PLAQUE IN EXUDATIVE DIABETIC MACULOPATHY.** Begg IS, Rootman J *Can J Ophthalmol* 11: 197-202, Jul 76 (Eng) DL/76NOV25

**Rose LI**

**ANAPHYLACTOID REACTION TO SINGLE-COMPONENT PORK INSULIN.** Goldman RA, Lewis AE, Rose LI *JAMA* 236: 1148-9, 6 Sep 76 (Eng) DL/76NOV146

**Rosell-Perez M**

**[A STUDY OF THE O-TOLUIDINE METHOD FOR GLYCOGEN MEASUREMENT (AUTHORS TRANSL).** Guinovart JJ, Rosell-Perez M *Rev Esp Fisiol* 31: 317-22, Dec 75 (Spa) \*DL/76NOV573

**Rosen OM**

**CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET**

**CELL TUMOR OF THE SYRIAN HAMSTER.** Schubart UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82, Feb 76 (Eng) \*DL/76NOV492

**Rosenberg SM**

**DYNAMIC PITUITARY TESTING IN A FEMALE WITH KALLMANN'S SYNDROME AND ASSOCIATED CARDIAC ANOMALY.** Rosenberg SM, Riddick DH *Obstet Gynecol* 48: 230-3, AUG 76 (Eng) DL/76NOV194

**ADOLESCENCE; ADULT; ANOSMIA** (complications); AORTA (abnormalities); CASE REPORT; CHILD; FEMALE; HEART SOUNDS; HUMAN; HYPOGONADISM (complications); INSULIN (diagnostic use); PITUITARY GLAND FUNCTION TESTS; PROLACTIN (blood); SOMATOTROPIN (blood); SYNDROME; WATER (diagnostic use).

**Rosenbloom AL**

**GROWTH HORMONE DEFICIENCY WITH HYPOGLYCEMIA, GENITAL HYPOPLASIA AND FRONTAL PROMINENCE.** Rosenbloom AL, Frias JL *Birth Defects* 10: 239-42, 1974 (Eng) DL/76NOV10

**CASE REPORT; FACE; HUMAN; HYPOGLYCEMIA (etiology); HYPOGONADISM (etiology); INFANT; MALE; SOMATOTROPIN (deficiency, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

**Rossini AA**

**INSULIN RELEASE IS GLUCOSE ANOMERIC SPECIFIC IN THE HUMAN.** Rossini AA, Soeldner JS *J Clin Invest* 57: 1083-8, Apr 76 (Eng) DL/76NOV102

**FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (pharmacodynamics); HUMAN; INSULIN (secretion); MALE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

**HOW TO CONTROL THE BLOOD GLUCOSE LEVEL IN THE SURGICAL DIABETIC PATIENT.** Rossini AA, Hare JW *Arch Surg* 111: 945-9, Sep 76 (Eng) DL/76NOV339

**BLOOD SUGAR; DIABETES MELLITUS** (complications, diagnosis, therapy); GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (therapy); INSULIN (metabolism, therapeutic use); STRESS (complications); SURGERY, OPERATIVE.

**CAVEAT ON GLUCOSE ANOMERS: MEASUREMENTS AND METABOLISM.** Rossini AA, Soeldner JS *Horm Metab Res* 7: 522-3, Nov 75 (Eng) \*DL/76NOV500

**EVALUATION STUDIES; GLUCOSE OXIDASE; GLUCOSE (metabolism); KINETICS; METHODS; STEREOISOMERS.**

**Rostlapi J**

**DIABETIC RETINOPATHY. A CLINICAL AND MORPHOLOGICAL STUDY.** Zrustova M, Vrabc F, Rostlapi J *Acta Diabetol Lat* 12: 272-88, Sep-Dec 75 (Eng) DL/76NOV283

**Roth HP**

**[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILK COWS.** 17. ZINC METABOLISM IN THE ANIMAL ORGANISM] Kirchgesner M, Roth HP, Schwarz WA Z *Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

**Rouen LR**

**EVALUATION OF THE USE OF MICROCIRCULATORY FINDINGS IN THE ANALYSIS OF CLINICAL DISEASE.** Redisch W, Rouen LR, Terry EN, Claus RH *Biol Anat* 13: 362-3, 1975 (Eng) DL/76NOV352

**Rouvillois JL**

**[THE LECITHIN-SPHINGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN-DEPENDENT DIABETIC PREGNANCIES]** Tchobroutsky C, Cedard L, Rouvillois JL,

## Diabetes Literature—Author Index

### Rovetto MJ

Amiel-Tison C *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

### Rovetto MJ

**RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM.** Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

**RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS.** Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) \*DL/76NOV616

### Rozee C

**IN VITRO SECRETION OF GASTRIN, INSULIN, AND GLUCAGON IN TISSUE CULTURES OF PANCREAS FROM A CHILD WITH NEONATAL INTRACTABLE HYPOGLYCEMIA.** Hollande E, Giron B, Lehy T, Accary JP, Rozee C *Gastroenterology* 71: 255-62, Aug 76 (Eng) DL/76NOV60

### Rubenstein AH

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) \*DL/76NOV46

**PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES.** PP. 531-49. Steiner DF, Kempler W, Tager HS, Rubenstein AH, Lernmark A, Zuhike H *In* Reich E, et al., ed. *Proteases and biological control*. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) [104] DL/76NOV129

### Rubenstein M

**COVALENT CHROMATOGRAPHY - THE ISOLATION OF TRYPTOPHANYL CONTAINING PEPTIDES BY NOVEL POLYMERIC AGENTS.** Rubenstein M, Shechter Y, Patchornik A *Biochem Biophys Res Commun* 70: 1257-63, 21 Jun 76 (Eng) DL/76NOV377

**AMINO ACIDS (analysis); CHROMATOGRAPHY, AFFINITY (methods); GLUCAGON; PEPTIDE FRAGMENTS (isolation & purification); TRYPTOPHAN (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Ruiton-Ugliengo M

**GLUCOSE ASSIMILATION IN NEONATES.** PP. 165-81. Salle B, Chance GW, Ruiton-Ugliengo M, Stalberg E, Steiner DF, Kempler W, Tager HS, Rubenstein AH, Lernmark A, Zuhike H *In* Stetson JB, Swyer PR, ed. *Neonatal intensive care*. St. Louis, Green, 1975. W3 271 S989n 1972. (Eng) DL/76NOV131

### Ruiz-Herrera J

**[DESCRIPTION OF A METHOD FOR THE DETERMINATION OF GLUCOSE AND ALPHA GLUCOSIDASE]** Flores-Carreón A, Ruiz-Herrera J *Rev Lat Am Microbiol* 17: 225-6, Oct-Dec 75 (Spa) \*DL/76NOV581

### Rushforth NB

**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

### Russe G

**[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL IN-**

**FARCT]** Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

### Ryan NT

**EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULATE METABOLISM IN SEPTIC SHOCK?** O'Donnell TF Jr, Clowes GH Jr, Ryan RT, Blackburn GL, Weisner A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

### Ryan P

**DIABETES IN CHILDREN.** Ryan P *Aust Fam Physician* 5: 452-8, May 76 (Eng) DL/76NOV346

**ADOLESCENCE; AGE FACTORS; CHILD; DIABETES MELLITUS, JUVENILE (diagnosis, therapy, urine); DIABETIC COMA (drug therapy); DIABETIC DIET; HEALTH EDUCATION; HUMAN; HYPOGLYCEMIA (etiology); INSULIN (adverse effects, therapeutic use).**

### Rylova AK

**[CHANGE IN SECRETION OF SOMATOTROPIC HORMONE AND INSULIN IN MYOCARDIAL INFARCT]** Rylova AK *Kardiologija* 15: 100-3, Sep 75 (Rus) DL/76NOV150

**ADULT; AGED; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); ISLANDS OF LANGERHANS (physiopathology); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood, physiopathology); PITUITARY GLAND, ANTERIOR (physiopathology); SOMATOTROPIN (secretion).**

### Ryser HJ

**POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS.** Ryser HJ, Termini TE, Barnes PR *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

**ADSORPTION; ALBUMINS (metabolism); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELL LINE; CELL MEMBRANE (metabolism); CYTOCHALASIN B (pharmacodynamics); FILTRATION; PHAGOCYTOSIS; POLY A-U (analog & derivatives, pharmacodynamics); POLY I-C (analog & derivatives, pharmacodynamics); SONICATION; STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Saad A

**THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS.** Shalash BA, El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

### Saalieva RZ

**[HYPEROSMOLAR COMA IN DIABETES MELLITUS]** Saalieva RZ *Zdravookhr Kirog* 47-9, May-Jun 76 (Rus) DL/76NOV281

**ACUTE DISEASE; ADULT; CASE REPORT; DIABETES MELLITUS (complications); DIABETIC COMA (physiopathology); HUMAN; KIRGHIZIA; MALE; OSMOLAR CONCENTRATION.**

### Sachs G

**ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE.** P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Saffran E, Le Magnen J *In* Colloque Européen de physiologie renale. Paris, INSERM, 1974. W3 300 E89c 1974. (Eng) \*DL/76NOV401

### Sachson RA

**LETTER: INSULIN LIPOATROPHY.** Sachson RA, Feld S *JAMA* 236: 820-1, 16 Aug 76 (Eng) DL/76NOV147

**ADIPOSE TISSUE (drug effects); ATROPHY (chemically induced); INSULIN (adverse effects).**

### Sack H

**[PROVOCATION TESTS IN PHEOCHROMOCYTOMA]** Muhlhoff G, Sack H *Med Welt* 27: 1179-81, 11 Jun 76 (Ger) DL/76NOV172

### Sadiqali R

**METABOLIC CHANGES IN DIABETIC UREMIC PATIENTS ON HEMODIALYSIS.** Avram MM, Lipner HI, Sadiqali R, Iancu M, Gan AC *Trans Am Soc Artif Intern Organs* 22: 412-9, 1976 (Eng) DL/76NOV265

### Safer B

**EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM.** Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

### Saglid U

**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

### Safer MH Jr

**REGULATION OF CARBOHYDRATE UPTAKE AND ADENYLATE CYCLASE ACTIVITY MEDIATED BY THE ENZYMES II OF THE PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM IN ESCHERICHIA COLI.** Safer MH Jr, Feucht BU, Hofstatter LJ *J Biol Chem* 251: 883-92, 10 Feb 76 (Eng) \*DL/76NOV513

**ADENYL CYCLASE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); CHLORAMPHENICOL (pharmacodynamics); ESCHERICHIA COLI (metabolism, enzymology, drug effects); GLUCOSE (metabolism); GLYCERIN (pharmacodynamics); KINETICS; LACTATES (metabolism); METHYGLUCOSIDES (metabolism); MONOSACCHARIDES (pharmacodynamics); MUTATION; PERMEASES (metabolism); PHOSPHOENOLPYRUVATE; PHOSPHOTRANSFERASES (metabolism); SALMONELLA TYPHIMURIUM (enzymology); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.**

### Saifer A

**P-HYDROXYBENZOIC ACID HYDRAZIDE PROCEDURE FOR SERUM GLUCOSE ADAPTED TO THE TECHNICON SMA 12/60, AND COMPARED WITH OTHER GLUCOSE METHODS.** Ferraro JJ, Caccavo FA, Saifer A *Clin Chem* 22: 263-6, Feb 76 (Eng) \*DL/76NOV460

### Sailer D

**[KETONE BODIES IN THE BLOOD DURING SORBITOL INFUSION]** Matzakis F, Berg G, Bickel H, Sailer D *Fortschr Med* 93: 1230-3, 18 Sep 75 (Ger) \*DL/76NOV653

### Sailer S

**FACTORS AFFECTING PLASMA LIPOPROTEIN CONCENTRATION: INFLUENCE OF INSULIN, GLUCAGON, CATECHOLAMINE, AND THYROID.** PP. 44-8. Sailer S *In* Hautvast JGAJ, et al., ed. *Blood*

## Diabetes Literature—Author Index

Sasaki A

and arterial wall in atherosclerosis and arterial thrombosis. *Leiden, Brill, 1975. WG 550 B655 1974.* (Eng) [21] DL/76NOV120

ANIMAL EXPERIMENTS (analysis); CATECHOLAMINES (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); GLUCAGON (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); LIVER (metabolism); MONOGRAPH (mortality); REVIEW; THYROID GLAND (physiology); TRIGLYCERIDES (metabolism).

Saito M

CIRCADIAN RHYTHMS IN DISACCHARIDASES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE. Saito M, Murakami E, Suda M. *Biochim Biophys Acta 421: 177-9, 14 Jan 76* (Eng) \*DL/76NOV431

CIRCADIAN RHYTHM; DISACCHARIDASES (metabolism); FOOD HABITS; GLUCOSIDASES (metabolism); INTESTINE, SMALL (enzymology); STARVATION; TIME FACTORS.

Saito N

OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA ISOLATED FROM STRESSED RAT HEART. Nagano M, Mochizuki S, Kogure T, Kosuga T, Saito N. *Recent Adv Stud Cardiac Struct Metab 8: 293-300, 1975* (Eng) \*DL/76NOV576

Saito S

ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES. PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N. *In: Hatozaki N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p* 1974. (Eng) \*DL/76NOV411

Sakaguchi T

EFFECTS OF EPINEPHRINE AND THEOPHYLLINE ON LIPOLYtic RESPONSE IN HEREDITARY DIABETIC MICE. Hayashi S, Sakaguchi T. *Tohoku J Exp Med 119: 91-100, May 76* (Eng) DL/76NOV259

Sakasaki S

[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL] Sakasaki S, Umezawa K, Nishiwaki H, Satake K. *Jpn J Gastroenterol 73: 481-6, May 76* (Jpn) DL/76NOV149

ANIMAL EXPERIMENTS (analysis); DEPRESSION, CHEMICAL; DOGS; ENGLISH ABSTRACT; GASTRIC JUICE (secretion); GASTRIN (blood); GLUCAGON (pharmacodynamics); MALE.

Salemier Y

[GLUCOSE AND THE REDUCING SUGARS OF THE HUMAN BILE] Paris J, Salembier Y, Gerard A, Samso G. *Med Chir Dig 4 suppl 1: 31-4, 1975* (Fre) DL/76NOV162

Salikhov RS

[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> ION TRANSPORT IN LIVER MITOCHONDRIA] Turakulov IAK, Gainutdinov MKh, Salikhov RS, Gizarullina ZZ, Lavina II. *Dokl Akad Nauk SSSR 226: 478-81, 11 Jan 76* (Rus) \*DL/76NOV465

Salle B

GLUCOSE ASSIMILATION IN NEONATES. PP. 165-81. Salle B, Chance GW, Ruitton-Ugliengo M, Stalberg E, Steiner DF, Kempler W, Tager HS, Rubenstein AH, Lernmark A, Zublik H. *In: Stetson JB, Swyer PR, ed. Neonatal intensive care. St. Louis, Green, 1975. WS 27.1 5989n* 1972. (Eng) DL/76NOV131

BIRTH WEIGHT; BLOOD SUGAR; CLINICAL RESEARCH; COMPARATIVE STUDY;

GESTATIONAL AGE; GLUCOSE TOLERANCE TEST (methods); GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (prevention & control); INFANT, NEWBORN; INSULIN ANTIBODIES (analysis); INSULIN (secretion); MONOGRAPH (mortality); PANCREAS (secretion).

Salpekar PD

SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA. PP 248-59. Carruthers ME, Taggart P, Salpekar PD, Gatt JA. *In: Schweizer W, ed. Beta-blockers - present status and future prospects. Bern, Huber, 1974. QV 132 B562* 1974. (Eng) \*DL/76NOV640

Salto L

[SECRETION OF GROWTH HORMONE IN ACROMEGALY] Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J. *Rev Clin Esp 141: 19-25, 15 Apr 76* (Spa) DL/76NOV228

Samizadeh A

NEW CLINICAL SYNDROMES UNDER REGULAR INTERMITTENT HEMODIALYSIS. Loew H, Samizadeh A, Heilmann E. *Curr Top Pathol 61: 239-76, 1976* (Eng) [280] \*DL/76NOV464

Samso G

[GLUCOSE AND THE REDUCING SUGARS OF THE HUMAN BILE] Paris J, Salembier Y, Gerard A, Samso G. *Med Chir Dig 4 suppl 1: 31-4, 1975* (Fre) DL/76NOV162

Samuel AM

ADRENOCORTICOSTEROIDS AND CORTICOSTEROID BINDING GLOBULINS IN PROTEIN CALORIE MALNUTRITION. Samuel AM, Kadival GV, Patel BD, Desai AG. *Am J Clin Nutr 29: 889-94, Aug 76* (Eng) DL/76NOV303

ADRENAL CORTEX HORMONES (blood); ADRENAL CORTEX (physiopathology); BLOOD PROTEINS (metabolism); BODY WEIGHT; CHILD; CHILD, PRESCHOOL; DIETARY PROTEINS (therapeutic use); HUMAN; HYPOGLYCEMIA (chemically induced, metabolism); INFANT; INFECTION (metabolism); INSULIN; KWASHIORKOR (metabolism); PROTEIN-CALORIE MALNUTRITION (diet therapy, metabolism); SERUM ALBUMIN (metabolism); SERUM GLOBULINS (metabolism); TRANSCORTIN (metabolism).

Sande JV

MOLECULAR TRANSPORT IN THYROID SLICES. Paiva M, Sande JV, Swillens S, Dumont JE. *Biochim Biophys Acta 419: 349-57, 21 Jan 76* (Eng) \*DL/76NOV428

Sander EH

FILTRATION PERMEABILITY IN THE HUMAN FOREARM MEASURED BY AN OSMOTIC TRANSIENT TECHNIQUE. Palm T, Nielsen SL, Lassen NA, Sander EH. *Bibl Anat 13: 80-1, 1975* (Eng) DL/76NOV355

Sanders RA

SEPTIC COMPLICATIONS OF TOTAL PARENTERAL NUTRITION. A FIVE YEAR EXPERIENCE. Sanders RA, Sheldon GF. *Am J Surg 132: 214-20, Aug 76* (Eng) DL/76NOV314

BACTERIAL INFECTIONS (prevention & control); CATHETERIZATION (adverse effects); EDUCATION, NURSING, CONTINUING; FUNGI (isolation & purification); GLYCOSURIA (complications); HUMAN; PARENTERAL FEEDING (adverse effects); PARENTERAL HYPERALIMENTATION (adverse effects); PATIENT CARE TEAM; SEPTICEMIA (etiology, prevention & control); STAPHYLOCOCCUS AUREUS (isolation & purification);

STAPHYLOCOCCUS (isolation & purification); SUBCLAVIAN ARTERY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Sanderson I

METABOLIC STUDIES IN TOTAL PARENTERAL NUTRITION WITH GLUCOSE. Jeejeebhoy KN, Anderson GH, Nakhoda AF, Greenberg GR, Sanderson I, Marliss EB. *J Clin Invest 57: 125-36, Jan 76* (Eng) \*DL/76NOV659

Sanford PA

PROCEEDINGS: EFFECT OF ACTIVELY TRANSPORTED HEXOSES ON AFFERENT NERVE DISCHARGE FROM RAT SMALL INTESTINE IN VIVO. Sanford PA. *J Physiol (Lond) 254: 75P-76P, Jan 76* (Eng) \*DL/76NOV539

ANIMAL EXPERIMENTS; HEXOSES (metabolism); INTESTINAL ABSORPTION; INTESTINE, SMALL (innervation); MALE; NEURONS, AFFERENT (physiology); RATS.

Sanghavi P

AUTOPHAGY-RELATED CHANGES OF ARYL-SULPHATASES A AND B IN RAT LIVER LYSOSOMES. Sanghavi P, Koeng H. *Biochem J 155: 725-8, 1 Jun 76* (Eng) DL/76NOV360

ANIMAL EXPERIMENTS (analysis); CEREBROSIDE SULFATASE (analysis); CHONDRO-4-SULFATASE (analysis); FEMALE; GLUCAGON (pharmacodynamics); HEPATECTOMY; LIVER (drug effects, enzymology); LYSOSOMES (enzymology); PHAGOCYTOSIS; RATS; STARVATION; SULFATASES (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Sansone F

[GLUCAGON CYCLIC AMP TEST. STUDY IN PATIENTS WITH CHOLESTATIC HEPATITIS AND WITH EXTRAHEPATIC CHOLESTASIS] Francavilla A, Pansini F, Sansone F, Di Cillo M, Albano O. *Med Chir Dig 5: 215-8, 1976* (Fre) DL/76NOV163

Sanwal BD

THE CONTROL OF PYRUVATE KINASE OF ESCHERICHIA COLI. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwal BD. *Biochemistry 15: 277-82, 27 Jan 76* (Eng) \*DL/76NOV422

Sarkadi B

MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS. PP. 167-80. Gardos G, Szasz I, Sarkadi B. *In: Gardos G, Szasz I, ed. Biomembranes: structure and function. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35.* (Eng) \*DL/76NOV403

Sarma JS

IN VIVO INHIBITION OF CHOLESTEROL UPTAKE IN RABBIT AORTAS BY 7-KETOCHOLESTEROL. Sarma JS, Fischer R, Ikeda S, Bing RJ. *Proc Soc Exp Biol Med 151: 303-6, Feb 76* (Eng) \*DL/76NOV568

ANIMAL EXPERIMENTS; AORTA (metabolism); BIOLOGICAL TRANSPORT (drug effects); CHOLESTEROL (metabolism, analogs & derivatives, pharmacodynamics, blood); DEPRESSION, CHEMICAL; FEMALE; KETOSTEROIDS (pharmacodynamics, blood, metabolism); RABBITS.

Sasaki A

STUDIES ON NORMAL BLOOD GLUCOSE LEVEL - STATISTICAL APPROACH TO INTERPRETATION OF GLUCOSE TOLERANCE TEST. Sasaki A, Horiuchi N. *J Chronic Dis 29: 129-40, Feb 76* (Eng) DL/76NOV91

## Diabetes Literature—Author Index

### Satake K

ADULT; AGED; BLOOD SUGAR (analysis); DIABETES MELLITUS (blood); FOLLOW-UP STUDIES; GLUCOSE TOLERANCE TEST; HUMAN; MALE; MIDDLE AGE; PREDIABETIC STATE (blood); REGRESSION ANALYSIS; RISK; STATISTICS.

### Satake K

[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL] Sakasaki S, Umeyama K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Eng) \*DL/76NOV149

### Sauer FD

EFFECT OF COLD STRESS ON RAPESEED OIL-FED RATS. Hulan HW, Kramer JK, Mahadevan S, Sauer FD, Corner AH *Lipids* 11: 6-8, Jan 76 (Eng) \*DL/76NOV547

### Saunders N

SEVERE SALT POISONING IN AN INFANT. Saunders N, Balf JW, Laski B *J Pediatr* 88: 258-61, Feb 76 (Eng) \*DL/76NOV534

BLOOD SUGAR (analysis); CASE REPORT; FEMALE; HUMAN; HYPERNATREMIA (etiology); INFANT NUTRITION DISORDERS; INFANT; OSMOLAR CONCENTRATION; PLASMA; POISONING (therapy, blood); SODIUM CHLORIDE (poisoning); SODIUM (blood).

### Savan PM

HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS. Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) \*DL/76NOV216

ALANINE (metabolism); ANIMAL EXPERIMENTS (analysis); FEMALE; GLUCAGON (pharmacodynamics); GLUCONEOGENESIS; LACTATES (metabolism); LACTATION; LIVER GLYCOGEN (metabolism); LIVER (embryology, metabolism); PREGNANCY; PROPIONATES (metabolism); SHEEP (metabolism).

### Sawano S

STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMUS. PP. 232-42. Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfinen A *Inn Hatozaki N*, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WI, 102 1657p 1974. (Eng) \*DL/76NOV414

ANIMAL EXPERIMENTS, CATTLE; CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DOGS; HYPOTHALAMUS (physiology, analysis); MONOGRAPH; PITUITARY GLAND, ANTERIOR (analysis, physiology); RATS; SECRETORY RATE (drug effects); SOMATOTROPIN RELEASING HORMONE (physiology, isolation & purification); SOMATOTROPIN (biosynthesis, blood).

### Schaffer S

EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM. Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95: 112, 1976 (Eng) \*DL/76NOV617

### Schally AV

BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology* 98: 540-3, Feb 76 (Eng) \*DL/76NOV474

INHIBITION BY SIX SOMATOSTATIN ANALOGS OF PLASMA GROWTH HORMONE LEVELS STIMULATED BY THIAMYLAL AND MORPHINE IN THE RAT. Ferdinand L, Labrie F, Coy DH, Arimura A, Schally AV *Mol Cell Endocrinol* 4: 79-88, Jan 76 (Eng) \*DL/76NOV491

### Scharff TG

THE EFFECTS OF SALICYLIC ACID ON METABOLISM AND POTASSIUM ION CONTENT IN YEAST. Scharff TG, Perry AC *Proc Soc Exp Biol Med* 151: 72-7, Jan 76 (Eng) \*DL/76NOV567

CARBOHYDRATES (metabolism); GLUCOSE (metabolism); PHILIPPINES; POTASSIUM (metabolism); SACCHAROMYCES CEREVISIAE (drug effects, metabolism); SALICYLATES (pharmacodynamics); TEMPERATURE.

### Schenck RD

[HEMIHYPERTROPHY WITH WIEDEMANN-BECKWITH-SYNDROME] Schenck RD *Z Orthop* 114: 354-60, Jun 76 (Ger) \*DL/76NOV277

ABDOMINAL NEOPLASMS (complications); ABNORMALITIES, MULTIPLE (complications); CASE REPORT; ENGLISH ABSTRACT; FEMALE; GERMANY; WEST; GIGANTISM (complications); HUMAN; HYPERTROPHY; HYPOGLYCEMIA (complications); INFANT MORTALITY; INFANT; MACROGLOSSIA (complications); MENTAL RETARDATION (complications); UMBILICAL HERINA (congenital).

### Scherbakova IA

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Pervova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

ANIMAL EXPERIMENTS; AORTA (pathology); ARTERIOSCLEROSIS (blood); ATHEROSCLEROSIS (blood, pathology); CHOLESTEROL (blood); ENGLISH ABSTRACT; HYDROCORTISONE (pharmacodynamics); LIPOPROTEINS (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); RABBITS; TRIGLYCERIDES (blood).

### Scherthauer G

LETTER: GENETIC FACTORS ON INSULIN ANTIBODIES IN JUVENILE-ONSET DIABETES. Scherthauer G, Ludwig H, Mayr WR, Willvonseder R N *Engl J Med* 295: 622, 9 Sep 76 (Eng) \*DL/76NOV181

DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); GENES; HISTOCOMPATIBILITY ANTIGENS; HL-A; HUMAN; INSULIN ANTIBODIES (biosynthesis); LINKAGE (GENETICS).

### Schiff D

LIPID METABOLISM IN THE NEONATE. I. THE EFFECTS OF INTRALIPID INFUSION ON PLASMA TRIGLYCERIDE AND FREE FATTY ACID CONCENTRATIONS IN THE NEONATE. Andrew G, Chan G, Schiff D *J Pediatr* 88: 273-8, Feb 76 (Eng) \*DL/76NOV535

LIPID METABOLISM IN THE NEONATE. II. THE EFFECT OF INTRALIPID ON BILIRUBIN BINDING IN VITRO AND IN VIVO. Andrew G, Chan G, Schiff D *J Pediatr* 88: 279-84, Feb 76 (Eng) \*DL/76NOV536

### Schiott CR

TWO YEAR ORAL USE OF CHLORHEXIDINE IN MAN IV. EFFECT ON VARIOUS MEDICAL PARAMETERS. Schiott CR, Loe H, Briner WW *J Periodont Res* 11: 158-64, Jun 76 (Eng) \*DL/76NOV140

ADMINISTRATION, ORAL; ADULT; BIGUANIDES (adverse effects); BLOOD SEDIMENTATION; CHLORHEXIDINE (administration & dosage, adverse effects, therapeutic use); CLINICAL RESEARCH;

DENTAL PLAQUE (prevention & control); DRUG EVALUATION; ERYTHROCYTES (drug effects); FEMALE; GLYCOSURIA; HEMOGLOBINS (analysis); HUMAN; KIDNEY (drug effects); LEUKOCYTES (drug effects); LIVER (drug effects); MALE; METHEMOGLOBINEMIA; PROTEINURIA; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Schilling PE

DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS. Moore MC, Guzman MA, Schilling PE, Strong JP *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

### Schillinger E

METABOLIC EFFECTS AND MORTALITY RATE IN DIABETIC CHINESE HAMSTERS AFTER LONG-TERM TREATMENT WITH S-METHOXYINDOLE-2-CARBOXYLIC ACID (MICA). Schillinger E, Loge O *Arzneim Forsch* 26: 554-6, Apr 76 (Eng) \*DL/76NOV381

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); DIABETES MELLITUS (metabolism); GLUCONEOGENESIS (drug effects); HAMSTERS; HYPOGLYCEMIC AGENTS (toxicity); INDOLES (pharmacodynamics, toxicity); LIVER GLYCOGEN (metabolism); MALE.

### Schleyer M

IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM. Etzrodt H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seyler Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

### Schmalz H

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schmalz H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lüdtke E, Robbe K, Rahn A, Schmalz H *Kinderärztl Prax* 44: 235-40, May 76 (Ger) \*DL/76NOV155

### Schmid-Schonbein H

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schonbein H, Kline KA, Volger E *Bibl Anat* 13: 91-2, 1975 (Eng) \*DL/76NOV356

BLOOD VISCOSITY; DIABETES MELLITUS (blood); ERYTHROCYTE AGGREGATION; FEMALE; HUMAN; MULTIPLE MYELOMA (blood); PHOTOMETRY; PREGNANCY.

MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS. Volger E, Schmid-Schonbein H, Mehner H *Bibl Anat* 13: 97-8, 1975 (Eng) \*DL/76NOV357

### Schmitt MG Jr

ABSORPTION OF SHORT CHAIN FATTY ACIDS FROM THE HUMAN JEJUNUM. Schmitt MG Jr, Soergel KH, Wood CM *Gastroenterology* 70: 211-5, Feb 76 (Eng) \*DL/76NOV493

ACETIC ACIDS (metabolism); ADULT; BUTYRATES (metabolism); FASTING; FATTY ACIDS, VOLATILE (metabolism); FEMALE; HUMAN; INTESTINAL ABSORPTION; JEJUNUM (metabolism); MALE; MIDDLE AGE; PROPIONATES (metabolism); SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; WATER (metabolism).

## Diabetes Literature—Author Index

Sellers EM

### Schneider V

**SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE.** Defos LJ, Lorenzi M, Bohanon N, Tsalikian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 873-84, Apr 76 (Eng) DL/76NOV105

### Schneider W

**REGULATION OF GLYCOGEN METABOLISM IN HUMAN BLOOD PLATELETS. PP. 107-9.** Schneider W *In0 Ulutin ON, ed. Platelets. Amsterdam, Excerpta Medica, 1975. W3 EX89 no.357 1974. (Eng)* \*DL/76NOV410

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); BLOOD PLATELETS (metabolism); GLYCOGEN PHOSPHORYLASE (blood); GLYCOGEN (blood); HUMAN; MONOGRAPH; PLATELET AGGREGATION.**

### Schonfeld G

**ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET.** Schonfeld G, Weidman SW, Wittzum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

**ADOLESCENCE; ADULT; APOPROTEINS (blood); BLOOD PROTEIN**

**ELECTROPHORESIS; COMPARATIVE STUDY; DIETARY CARBOHYDRATES; DIETARY FATS (metabolism); ELECTROPHORESIS, DISC; FEMALE; HUMAN; LIPOPROTEINS (blood); LIPOPROTEINS, VLDL (blood); MALE; TIME FACTORS; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Schramm M

**PROCEEDINGS: A ROLE FOR LIPIDS IN THE ACTIVATION OF ADENYLATE CYCLASE BY CATECHOLAMINE.** Orly J, Schramm M *Isr J Med Sci* 11: 1195, Nov 75 (Eng) \*DL/76NOV656

### Schreier-Muccillo S

**MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES.** Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochem Biophys* 172: 1-11, Jan 76 (Eng) \*DL/76NOV626

**ASCORBIC ACID; BINDING SITES; CALORIMETRY; CHOLESTEROL; ELECTRON SPIN RESONANCE; MATHEMATICS; MEMBRANES, ARTIFICIAL; MOLECULAR CONFORMATION; PERMEABILITY; PHOSPHOLIPIDS; SPIN LABELS; THERMODYNAMICS.**

### Schroeder HR

**ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT.** Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

**ACETYLGLUCOSAMINIDASE (metabolism); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BODY WEIGHT; DIETARY CARBOHYDRATES; ENZYME INDUCTION (drug effects); FASTING; GALACTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); GLUCOSEPHOSPHATE DEHYDROGENASE (biosynthesis); GLUCURONIDASE (metabolism); LIVER (enzymology, drug effects); LYSOSOMES**

(enzymology, ultrastructure); MALE; ORGAN WEIGHT; PHOSPHOGLUCONATE DEHYDROGENASE (biosynthesis); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Schubart UK

**CHARACTERIZATION OF THE PROTEIN KINASES IN A TRANSPLANTABLE ISLET CELL TUMOR OF THE SYRIAN HAMSTER.** Schubart UK, Rosen OM *Mol Cell Endocrinol* 4: 167-82 (Eng) \*DL/76NOV492

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; BINDING SITES; ENZYME ACTIVATION; HAMSTERS; ISLET CELL TUMOR (enzymology); MAGNESIUM (pharmacodynamics); MOLECULAR WEIGHT; NEOPLASMS, EXPERIMENTAL (enzymology); PROTEIN BINDING; PROTEIN KINASE (metabolism, isolation & purification); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.**

### Schukowski H

**[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD]** Schukowski H, Spann U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Lutdice E, Robbe K, Rahm A, Schmalz H *Kinderarztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

**AGE FACTORS; CHILD; DIABETES MELLITUS; JUVENILE (drug therapy, therapy); DIABETIC COMA (drug therapy, metabolism, therapy); HUMAN; INFUSIONS, PARENTERAL; INSULIN (therapeutic use).**

### Schulz D

**EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN.** Stacher G, Bauer P, Schulz D, Pöntner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

### Schwartz JP

**EFFECTS OF SUGARS ON THE PHYSIOLOGY OF CULTURED FIBROBLASTS.** Johnson GS, Schwartz JP *Exp Cell Res* 97: 281-90, Feb 76 (Eng) \*DL/76NOV481

### Schwartz WA

**[EFFECT OF ZINC DEFICIENCY ON SERUM INSULIN LEVELS IN MILK COWS. 17. ZINC METABOLISM IN THE ANIMAL ORGANISM]** Kirchgessner M, Roth HP, Schwarz WA Z *Tierphysiol* 36: 175-9, Feb 76 (Ger) DL/76NOV279

### Schweitzer T

**[EFFECT OF DIABETES MELLITUS ON A PERSONALITY DEVELOPMENT DISORDER AND ITS INFLUENCE ON THE COURSE OF THE DISEASE]** Schweitzer T Z *Klin Psychol Psychother* 24: 68-75, 1976 (Ger) DL/76NOV276

**ADOLESCENCE; ADULT; DEPRESSION (etiology); DIABETES MELLITUS (complications); DIABETES MELLITUS (diet therapy); DIABETES MELLITUS, JUVENILE (complications); DRIVE; ENGLISH ABSTRACT; FOOD HABITS; GLYCOSURIA (etiology); HUMAN; MIDDLE AGE; PERSONALITY DISORDERS (complications); PROGRAMMED INSTRUCTION; PROJECTIVE TECHNIQUES; STRESS, PSYCHOLOGICAL; TIME FACTORS.**

### Scieszka M

**[INTERNAL DISEASES IN DRIVERS AS A CAUSE OF TRAFFIC ACCIDENTS]** Hankiewicz J, Scieszka M *Wiad Lek* 29: 1311-5, 15 Jul 76 (Pol) DL/76NOV273

### Seed M

**TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDAEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY.** Kissehah AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

### Segrest JP

**PROCEEDINGS: LIPID-PROTEIN INTERACTIONS IN BIOLOGICAL MEMBRANES.** Segrest JP Z *Klin Chem Klin Biochem* 13: 369, Aug 75 (Eng) \*DL/76NOV598

**MEMBRANES, ARTIFICIAL; PHOSPHOLIPIDS; PROTEINS.**

### Sehlin J

**CALCIUM UPTAKE BY SUBCELLULAR FRACTIONS OF PANCREATIC ISLETS. EFFECTS OF NUCLEOTIDES AND THEOPHYLLINE.** Sehlin J *Biochem J* 156: 63-9, 15 Apr 76 (Eng) DL/76NOV362

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); AZIDES (pharmacodynamics); CALCIUM (metabolism); CYTOSINE NUCLEOTIDES (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); IN VITRO; ISLANDS OF LANGERHANS (metabolism); KINETICS; MICE; MICROSOMES (metabolism); NUCLEOTIDES (pharmacodynamics); NUCLEOTIDES, CYCLIC (pharmacodynamics); SUBCELLULAR FRACTIONS (metabolism); SUCROSE (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); TIME FACTORS.**

### Seignalet J

**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS]** Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

### Seino Y

**POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS.** Goto Y, Seino Y, Taminato T, Imura H *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

### Selam JL

**HL-A ANTIGENS IN INSULIN-DEPENDENT DIABETES MELLITUS]** Mirouze J, Seignalet J, Selam JL, Lapinski H, Jaffiol C *Nouv Presse Med* 5: 1628-30, 26 Jun 76 (Fre) DL/76NOV206

### Selawry HP

**ISLET CELL TUMORS OF THE PANCREAS. PP. 183-7.** Selawry HP *In0 Charyulu KK, Sudarshan A, ed. Hormones and cancer. New York, Stratton, 1976.* W3 C162GS 1975h. (Eng) DL/76NOV116

**ADULT; FEMALE; HUMAN; INSULIN (secretion); ISLET CELL TUMOR (diagnosis, secretion, surgery); MALE; MIDDLE AGE; MONOGRAPH (mortality); PANCREATIC NEOPLASMS (diagnosis, secretion, surgery).**

### Sellers EM

**PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS.** Thiessen JJ, Sellers EM, Denbeigh

## Diabetes Literature—Author Index

### Semenza G

P. Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

### Semenza G

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaroni A, Voegeli H *In 60 Cardos G, Szasz I, ed. Biomembranes: structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

ANIMAL EXPERIMENTS; BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CARBOHYDRATES (metabolism); CELL MEMBRANE (enzymology); GLYCOSIDE HYDROLASES (metabolism); INTESTINE, SMALL (enzymology); KINETICS; MACROMOLECULAR SYSTEMS; MANNITOL (metabolism); MATHEMATICS; MONOGRAPH; PROTEIN BINDING; RABBITS; SPECTRUM ANALYSIS, MASS; SUCRASE (metabolism); SUCROSE (metabolism).

### Sende P

PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS. Sende P, Pantelakis N, Suzuki K, Bashore R *Obstet Gynecol* 48: 383-413, Jul 76 (Eng) DL/76NOV193

ADULT; CASE REPORT; CESAREAN SECTION; DIABETES INSIPIDUS (blood, drug therapy); FEMALE; FETAL HEART; HUMAN; LABOR; MONITORING SYSTEMS; OXYTOCIN (blood); PREGNANCY IN DIABETES (blood); PREGNANCY IN DIABETES (drug therapy); PREGNANCY; UTERINE CONTRACTION; VASOPRESSIN (therapeutic use).

### Senders RC

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biervliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* 1: 594, 13 Mar 76 (Eng) \*DL/76NOV545

### Sener A

THE STIMULUS-SECRETION COUPLING OF GLUCOSE-INDUCED INSULIN RELEASE. DOES GLYCOSYL CONTROL CALCIUM TRANSPORT IN THIS B-CELL? Sener A, Levy J, Malaisse WJ *Biochem J* 156: 521-5, 15 Jun 76 (Eng) DL/76NOV369

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; CALCIUM (metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GALACTOSE (pharmacodynamics); GLUCOSE (metabolism); GLYCOLYSIS; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); LACTATES (metabolism); MANNOHEPTULOSE (pharmacodynamics); RATS; THEOPHYLLINE (pharmacodynamics).

MEASUREMENT OF LACTIC ACID IN NANOMOLAR AMOUNTS. RELIABILITY OF SUCH A METHOD AS AN INDEX OF GLYCOLYSIS IN PANCREATIC ISLETS. Sener A, Malaisse WJ *Biochem Med* 15: 34-41, Feb 76 (Eng) DL/76NOV375

ANIMAL EXPERIMENTS (analysis); GLUCOSE (metabolism); GLYCOLYSIS; IN VITRO; ISLANDS OF LANGERHANS (metabolism); LACTATES (metabolism); METHODS; MICROCHEMISTRY; RATS.

### Sensi S

CIRCADIAN RHYTHM OF INSULIN-INDUCED HYPOGLYCEMIA IN MAN. Sensi S, Caponi F J *Clin Endocrinol Metab* 43: 462-5, Aug 76 (Eng) DL/76NOV101

ADULT; BLOOD SUGAR (metabolism); CIRCADIAN RHYTHM; HUMAN;

HYPOGLYCEMIA (chemically induced); INSULIN; MALE.

### Serban I

[EFFECT OF PROPRANOLOL AND GLUCOSE-INSULIN-POTASSIUM SOLUTIONS ON THE DEVELOPMENT AND PROGNOSIS OF ACUTE TRANSMURAL MYOCARDIAL INFARCT] Dimitriu CG, Manu P, Karassi A, Draganovici M, Gavrila F, Nicolau V, Russe G, Serban I *Rev Med Intern [Med Intern]* 28: 199-204, May-Jun 76 (Rum) DL/76NOV231

### Serrano-Rios M

HCS REGULATION DURING PREGNANCY. Prieto JC, Serrano-Rios M *Obstet Gynecol* 48: 297-301, Sep 76 (Eng) DL/76NOV198

### Setchell BP

THE ENTRY OF SUBSTANCES INTO THE SEMINIFEROUS TUBULES. PP. 37-57. Setchell BP *In 60 Mancini RE, Martini L, ed. Male fertility and sterility*. London, Academic Press, 1974. W3 PR945 R v.5 1974. (Eng) \*DL/76NOV416

AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; BODY FLUIDS (metabolism); CAPILLARY PERMEABILITY; CARBOHYDRATES (metabolism); DRUGS (metabolism); FSH (metabolism); GLUCOSE (metabolism); IONS; LYMPH (metabolism); LH (metabolism); MALE; MONOGRAPH; PREGNENES (metabolism); PROTEINS (metabolism); RETE TESTIS (metabolism); SEMINIFEROUS TUBULES (metabolism); TESTIS (blood supply, metabolism); TESTOSTERONE (metabolism); WATER (metabolism).

### Severina II

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Imanlyov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimiia* 40: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

### Sfirlea V

[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS] Sfirlea V, Tudor P, Moise T *Rev Ig [Pneumofiziol]* 25: 39-42, Jan-Mar 76 (Rum) DL/76NOV237

ADOLESCENCE; ADULT; AGE FACTORS; AGED; ANTITUBERCULAR AGENTS (adverse effects); BODY WEIGHT (drug effects); DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; NUTRITION; TUBERCULOSIS, PULMONARY (complications).

### Sforza V

[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN] Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV4

### Shalash BA

THE CONJUNCTIVA: HISTOPATHOLOGICAL STUDY OF THE CONJUNCTIVAL VASCULATURE IN DIABETES MELLITUS. Shalash BA, El-Hoshy M, Saad A, El-Fiki AF *Bull Ophthalmol Soc Egypt* 68: 1-15, 1975 (Eng) DL/76NOV14

ADULT; CASE REPORT; CONJUNCTIVA (blood supply); DIABETIC ANGIOPATHIES

(pathology); DIABETIC RETINOPATHY (pathology); EYE DISEASES (pathology);

FEMALE; HUMAN; MALE; MIDDLE AGE; TIME FACTORS.

### Shapiro FL

A REASSESSMENT OF THE PROGNOSIS OF DIABETIC PATIENTS TREATED BY

CHRONIC HEMODIALYSIS (CHD). Comty CM, Kjelsden D, Shapiro FL *Trans Am Soc Artif Intern Organs* 22: 404-11, 1976 (Eng) DL/76NOV264

### Shaw JF

LETTER: DIABETES MELLITUS, CHROMOSOMAL ABERRATION, AND MALIGNANCY. Shaw JF, Kansal PC, Gatti RA *Lancet* 2: 315, 7 Aug 76 (Eng) DL/76NOV166

ADULT; CASE REPORT; CHROMOSOME ABERRATIONS; CHROMOSOME MAPPING; CONANGUINITY; DIABETES MELLITUS (familial & genetic); FEMALE; HAPLOIDY; HLA; HODGKINS DISEASE (familial & genetic); HUMAN; MALE.

### Shchedrenok VV

[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY] Brodskaya NI, Zotov IuV, Shchedrenok VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

### Shcherbakova IA

[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY] Brodskaya NI, Zotov IuV, Shchedrenok VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

### Shcherbukhin VD

[MODIFICATION OF THE FERROCYANIDE VERSION OF THE GLUCOSE OXIDASE METHOD FOR MEASURING GLUCOSE] Afanasyeva GA, Shcherbukhin VD *Prikl Biokhim Mikrobiol* 11: 460-2, May-Jun 75 (Rus) \*DL/76NOV671

### Shechter Y

LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE. Hamosh M, Yeager M Jr, Shechter Y, Hamosh M *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV707

COVALENT CHROMATOGRAPHY - THE ISOLATION OF TRYPTOPHANYL CONTAINING PEPTIDES BY NOVEL POLYMERIC REAGENTS. Rubinstein M, Shechter Y, Patchornik A *Biochim Biophys Res Commun* 70: 1257-63, 21 Jun 76 (Eng) DL/76NOV377

### Sheldon GF

SEPTIC COMPLICATIONS OF TOTAL PARENTERAL NUTRITION. A FIVE YEAR EXPERIENCE. Sanders RA, Sheldon GF *Am J Surg* 132: 214-20, Aug 76 (Eng) DL/76NOV314

### Shepherd DA

HEPATIC GLUCONEOGENESIS IN FOETAL AND SUCKLING LAMBS. Savan PM, Jeacock MK, Shepherd DA *Proc Nutr Soc* 35: 30a, May 76 (Eng) DL/76NOV216

### Sherman L

REAPPRAISAL OF THE ROLE OF THE DIABETIC STATE IN CORONARY ARTERY DISEASE. Hambly RI, Sherman L, Mehta J, Aintablian A *Chest* 70: 251-7, Aug 76 (Eng) DL/76NOV36

### Sheyanov GG

[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY] Surinov BP, Sheyanov GG *Vopr Med Khim* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

### Shipp JC

DIABETIC NEUROPATHY: CLINICAL MANIFESTATIONS, DIAGNOSIS, AND MANAGEMENT. Lovrien F, Shipp JC *Nebr Med J* 61: 218-22, Jul 76 (Eng) DL/76NOV186

## Diabetes Literature—Author Index

Sinha TK

### Shisheva AC

**INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION.** Penchev II, Shisheva AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat* 12: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

### Shlimovich PB

**[PATHOGENESIS OF DISORDER OF GLUCOSE TOLERANCE AND DIABETES MELLITUS IN PATIENTS WITH CHRONIC HEPATITIS AND LIVER CIRRHOSIS]** Moskvichev AM, Shlimovich PB *Sov Med* 110-4, Sept 75 (Rus) DL/76NOV248

### Shos AR

**RENAL TRANSPLANTATION WITH BLOOD SUPPLY BY AXILLOFEMORAL BYPASS GRAFT.** Shos AR, DeShazo CV, Rattazzi L, Najarian JS *Am J Surg* 132: 97-9, Jul 76 (Eng) DL/76NOV313

ADULT; AORTIC ANEURYSM (surgery); AXILLARY ARTERY (surgery); BLOOD VESSEL PROSTHESIS; CASE REPORT; DIABETIC NEPHROPATHIES (surgery); FEMALE; FEMORAL ARTERY (surgery); HUMAN; ILLIAC ARTERY (surgery); KIDNEY (blood supply, transplantation); NEPHRECTOMY; TRANSPLANTATION, AUTOLOUS.

### Shrago E

**RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EF-FUX IN GUINEA PIG HEART MITOCHONDRIA.** Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

### Shreeve WW

**RADIOPRIOMETRIC STUDY OF CARBOHYDRATE METABOLISM IN CHILDHOOD LIVER DISEASE.** DaCosta H, Shreeve WW, Merchant S *J Nucl Med* 17: 218-9, Mar 76 (Eng) \*DL/76NOV532

### Shug AL

**RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EF-FUX IN GUINEA PIG HEART MITOCHONDRIA.** Sul HS, Shrago E, Shug AL *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

### Sialy R

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sina MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

### Siam AL

**PROLIFERATIVE DIABETIC RETINOPATHY.** Siam AL *Bull Ophthalmol Soc Egypt* 68: 353-63, 1975 (Eng) DL/76NOV15

DIABETIC RETINOPATHY (etiology, therapy); HUMAN; PROGNOSIS.

### Sicinski A

**[ADVANCES IN NEPHROLOGY. KIDNEY FAILURE IN PATIENTS WITH DIABETES MELLITUS]** Sicinski A *Pol Arch Med Wewn* 56: 81-91, Jul 76 (Pol) DL/76NOV208

DIABETES MELLITUS (complications); HEMODIALYSIS (diagnosis); HUMAN; KIDNEY FAILURE, ACUTE (complications); KIDNEY FAILURE, CHRONIC (complications, therapy);

KIDNEY (drug effects); KIDNEY (transplantation); MULTIPLE MYELOMA (complications); SULFAMETHOXAZOLE (adverse effects, therapeutic use); TRANSPLANTATION, HOMOLOGOUS (transplantation); TRIMETHOPRIM (adverse effects, therapeutic use); URINARY TRACT INFECTIONS (drug therapy).

### Sicolo N

**ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED MUSCULAR EXERCISE IN THE RAT.** Feder-spil G, Udescini G, De Palo C, Sicolo N *Endocrinol Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

### Siess EA

**PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT LIVER CELLS.** Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) DL/76NOV363

ACETOACETATES (analysis); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ALLOXAN DIABETES (metabolism); AMMONIUM CHLORIDE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ATRACTYLOSIDE (pharmacodynamics); CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE (pharmacodynamics); COENZYME A (analysis); COMPARATIVE STUDY; CYTOSOL (metabolism); DIABETES MELLITUS (chemically induced, metabolism); HYDROXYBUTYRATES (analysis); IN VITRO; LIVER (metabolism); MALE; MITOCHONDRIA; LIVER (metabolism); PYRUVATE DEHYDROGENASE COMPLEX (metabolism); RATS; STARVATION; STREPTOZOTOCIN.

### Siller WG

**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

### Silver A

**IDIOPATHIC THROMBOCYTOPENIC PURPURA, DIABETES MELLITUS, AND PREGNANCY.** Levine PR, Adams RR, Silver A, Fernandez-Rocha L *Obstet Gynecol* 48: 313-323, Jul 76 (Eng) DL/76NOV192

### Simmons R

**HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY.** Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

### Simpkins KC

**RADIOLYSIS NOW. THE COLON PACIFIED.** Simpkins KC *Br J Radiol* 49: 303-5, Apr 76 (Eng) DL/76NOV19

AGED; ATROPINE (diagnostic use); BARIUM SULFATE (diagnostic use); BUTYLCOPOLIAMMONIUM BROMIDE (diagnostic use); COLON (drug effects, radiography); ENEMA; GLUCAGON (diagnostic use); HUMAN; MALE; PARASYMPATHOLYTICS (adverse effects, diagnostic use, pharmacodynamics); PROPAANTHELINE BROMIDE (diagnostic use).

### Sinclair JC

**PERINATAL ENERGY METABOLISM. PP. 104-19.** Sinclair JC, Warshaw JB *In 0 Hafez ES, ed. The mammalian fetus: comparative biology and methodology.* Springfield, Thomas, 1975. WQ 210 M265 1973. (Eng) [21] \*DL/76NOV406

ANIMAL EXPERIMENTS; BIRTH WEIGHT; BODY COMPOSITION; BODY WEIGHT; COMPARATIVE STUDY; ENERGY METABOLISM; FATTY ACIDS (metabolism); FETUS (metabolism); GLUCONEOGENESIS; GLUCOSE (metabolism); GLUCOGEN (metabolism); GLYCOLYSIS; GROWTH; HUMAN; INFANT, NEWBORN; KETONES (metabolism); LIPIDS (biosynthesis); MONOGRAPH; OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION; PROTEINS (biosynthesis); REVIEW; SHEEP.

### Sindlerova E

**[INCIDENCE OF DIABETES IN PRIMARY GLAUCOMA]** Sindlerova E *Cesk Oftalmol* 32: 192-8, Jun 76 (Cze) DL/76NOV29

CZECHOSLOVAKIA; DIABETES MELLITUS (occurrence); ENGLISH ABSTRACT; FEMALE; GLAUCOMA (complications); HUMAN; MALE; SEX FACTORS.

### Singer A

**SURGICAL TREATMENT OF MAL PERFORANS.** Singer A *Arch Surg* 111: 964-8, Sep 76 (Eng) DL/76NOV340

DIABETIC NEUROPATHIES (complications); FEMALE; FOOT DISEASES (surgery); HUMAN; MALE; METATARSUS (surgery); MIDDLE AGE; SHOES; SKIN ULCER (complications, surgery).

### Singh BR

**ON THE MUSCULAR FUEL OF THE AIR SAC IN AN AIR BREATHING FISH.** Thakur RN, Singh BR *Acta Histochem (Jena)* 54: 322-7, 1975 (Eng) \*DL/76NOV605

### Singh SP

**ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM.** Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med* 152: 449-54, Jul 76 (Eng) DL/76NOV219

ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); GLUCOSE TOLERANCE TEST; INSULIN (blood, pharmacodynamics); MALE; MICE; TIME FACTORS.

### Sinha MK

**SERUM AND PANCREATIC IMMUNOREACTIVE INSULIN (IRI) AND PROINSULIN-LIKE COMPONENT (PLC), SERUM IRI AND PLC RESPONSE TO DIFFERENT STIMULI IN NORMAL SUBJECTS AND ORGANIC HYPERINSULINISM.** Rastogi GK, Sialy R, Sinha MK, Dash R, Chopra JS, Kataria RN *Acta Diabetol Lat* 12: 309-23, Sep-Dec 75 (Eng) DL/76NOV287

### Sinha TK

**ON THE LIPOLYtic ACTION OF PARATHYROID HORMONE IN MAN.** Sinha TK, Thayachayapong P, Queener SF, Allen DO, Bell NH *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, physiology); ADIPOSE TISSUE (metabolism); ADULT; CALCIUM (pharmacodynamics); CATTLE; COMPARATIVE STUDY; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLYCERIN (metabolism); HUMAN; HYPOPARATHYROIDISM (metabolism); IN VITRO; LIPIDS (metabolism); MALE; MIDDLE AGE; PARATHYROID GLANDS (physiology); PARATHYROID HORMONE (pharmacodynamics); PEPTIDE FRAGMENTS (pharmacodynamics); PSEUDOHYPOPARATHYROIDISM (metabolism); TISSUE EXTRACTS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

## Diabetes Literature—Author Index

Sirakov LM

Sirakov LM

INSULIN-BINDING ANTIBODIES IN DIABETIC PATIENTS. DYNAMIC ASPECTS OF THEIR FORMATION. Penchev II, Shishova AC, Ditzov SP, Andreev DC, Sirakov LM *Acta Diabetol Lat 12*: 296-302, Sep-Dec 75 (Eng) DL/76NOV285

Sivasambu R

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POST-MATURITY. Kashyap ML, Sivasambu R, Sothy SP, Cheah JS, Gartside PS *Metabolism 25*: 865-75, Aug 76 (Eng) DL/76NOV177

Skaare JU

THE EFFECT OF ETHOXQUIN ON THE INTESTINAL TRANSPORT OF DIETARY INSULIN AND WATER IN VITRO. Skaare JU *Acta Pharmacol Toxicol (Kbh)* 38: 174-6, Feb 76 (Eng) \*DL/76NOV606

ANIMAL EXPERIMENTS; ETHOXQUIN (pharmacodynamics); GLUCOSE (metabolism); INTESTINAL ABSORPTION (drug effects); JEJUNUM (metabolism); MALE; QUINOLINES (pharmacodynamics); RATS; WATER (metabolism).

Skinner DB

SURVIVAL OF DOGS SUBJECTED TO PROFOUND HYPOTHERMIA WITH CIRCULATORY SUPPORT. Zarins CK, Moossa AR, Skinner DB *Arch Surg 111*: 186-9, Feb 76 (Eng) \*DL/76NOV361

Skop B

[RESULTS OF SURGICAL TREATMENT OF UROLITHIASIS IN DIABETICS] Fryczkowski M, Skop B *Wiad Lek 29*: 1073-7, 15 Jun 76 (Pol) DL/76NOV272

Skovronskaja EV

[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES] Glants RN, Skovronskaja EV, Vovk GP, Mikolishin LI *Biull Eksp Biol Med 81*: 560-1, May 76 (Rus) DL/76NOV12

Skulachev VP

[RESPIRATION TOXINS AS INHIBITORS OF ION TRANSPORT, SUPPORTED BY ATP HYDROLYSIS, IN MITOCHONDRIA] Dolgov AV, Ismanlov AD, Liakhovich VV, Severina II, Skulachev VP, Fateeva LA *Biokhimia 40*: 934-41, Sep-Oct 75 (Rus) \*DL/76NOV439

Sladek T

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkula J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

ANIMAL EXPERIMENTS (analysis); DISEASE MODELS; ANIMAL; DOGS; DRUG THERAPY; COMBINATION; GLUCOSE (therapeutic use); HYALURONIDASE (therapeutic use); INSULIN (therapeutic use); MAGNESIUM (administration & dosage); METHOXAMINE (therapeutic use); MYOCARDIAL INFARCT (prevention & control); NECROSIS (prevention & control); POTASSIUM (administration & dosage); TROMETHAMINE (therapeutic use).

Slater PM

CHRONICALLY ILL CHILDREN. A PSYCHOLOGICALLY AND EMOTIONALLY DEVIANT POPULATION Tavormina JB, Kastner LS, Slater PM, Watt SL *J Abnorm Child Psychol 4*: 99-110, 1976 (Eng) DL/76NOV110

Slatopolsky E

OBSERVATIONS ON THE BIOCHEMICAL EFFECTS OF TRANSFUSION OF CITRATE-PHOSPHATE-DEXTROSE STORED BLOOD IN MAN. Miller RN, Engelhardt R, Collins JA, Slatopolsky E, Landenson JH *Laryngoscope 86*: 1272-9, Aug 76 (Eng) DL/76NOV167

Smekens L

TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES. Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J 2*: 394-6, 14 Aug 76 (Eng) DL/76NOV22

Smikodub AI

[ENERGY SUPPLY OF THE ARTERIAL WALL AFTER ITS DENERVATION] Smikodub AI *Patol Fiziol Eksp Ter 34-7*, Sep-Oct 73 (Rus) \*DL/76NOV670

ADENOSINE MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CATS; DENERVATION; ENERGY METABOLISM; ENGLISH ABSTRACT; FEMALE; FEMORAL ARTERY (metabolism, innervation); GLYCOLYSIS; KREBS CYCLE; MALE; PENTOSOSES (metabolism); TIME FACTORS.

Smith E

THE EFFECT OF GASTROINTESTINAL HORMONES ON THE GASTRIC MICROCIRCULATION. Guth PH, Smith E *Gastroenterology 71*: 435-8, Sep 76 (Eng) DL/76NOV61

Smith GH

DETERMINANT COMPETITION DURING THE IMMUNE RESPONSE TO N-ACYL DERIVATIVES OF OX INSULIN IN THE HARTLEY GUINEA-PIG. Hollins PJ, Smith GH, Himswoth RL *Clin Exp Immunol 24*: 507-14, Jun 76 (Eng) DL/76NOV33

Smith IC

MONITORING THE PERMEABILITY PROFILE OF LIPID MEMBRANES WITH SPIN PROBES. Schreier-Muccillo S, Marsh D, Smith IC *Arch Biochem Biophys 172*: 1-11, Jan 76 (Eng) \*DL/76NOV626

Smith R

HYPOPHOSPHATEMIC OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS. Smith R, Lindenbaum RH, Walton RJ *Q J Med 69*: 387-400, Jul 76 (Eng) DL/76NOV225

ADOLESCENCE; ADULT; AMINOACIDURIA, RENAL (familial & genetic); CASE REPORT; CHILD; CHILD; PRESCHOOL; DIABETES MELLITUS (complications); FANCONI SYNDROME (familial & genetic); FEMALE; GENES, DOMINANT; GLYCOSURIA (complications); HUMAN; HYPOPHOSPHATEMIA, FAMILIAL (complications); INFANT; KIDNEY TUBULES (physiopathology); MALE; MIDDLE AGE; OSTEOMALACIA (complications, familial & genetic); PEDIGREE; PROGNOSIS; PROTEINURIA (complications).

Smith U

THE EFFECT OF LONG-TERM DEXAMETHASONE TREATMENT ON LIPOPROTEIN LIPASE ACTIVITY IN RAT FAT CELLS. Krotkiewski M, Björntorp P, Smith U *Horm Metab Res 8*: 245-6, May 76 (Eng) DL/76NOV79

EFFECTS OF HALOTHANE ON LIPID METABOLISM IN HUMAN ADIPOSE TISSUE. PP. 842-5. Bennis J, Smith U *In: Arias A et al., ed. Recent progress in anaesthesia and resuscitation. Amsterdam, Excerpta Medica, 1975. W3 EX89 no. 347 1974*. (Eng) \*DL/76NOV389

Smith WD

BLOCKADE OF THE STRESS-INDUCED DECREASE IN BLOOD GH BY ANTI-SOMATOSTATIN SERUM IN RATS. Arimura A, Smith WD, Schally AV *Endocrinology 98*: 540-3, Feb 76 (Eng) \*DL/76NOV474

Smithurst BA

THE CARE OF DIABETES MELLITUS AT A COMMUNITY HEALTH CENTRE. Smithurst BA *Aust Fam Physician 5*: 545-9, May 76 (Eng) DL/76NOV349

AMBULATORY CARE; AUSTRALIA; COMMUNITY HEALTH SERVICES; DELIVERY OF HEALTH CARE; DIABETES MELLITUS (therapy); EDUCATION, MEDICAL, UNDERGRADUATE; HUMAN; SOCIAL SERVICE.

Snyder AK

ADVERSE REVERSIBLE EFFECTS OF CHRONIC ETHANOL INTAKE ON CARBOHYDRATE METABOLISM. Singh SP, Patel DG, Snyder AK *Proc Soc Exp Biol Med 152*: 449-54, Jul 76 (Eng) DL/76NOV219

Sobolewski G

A SYSTEM FOR REPORTING ANALYTICAL RESULTS ACCORDING TO THE ACTUAL LEVEL OF THE TESTS EXACTITUDE. Sobolewski G *Clin Biochem 8*: 409-14, Dec 75 (Eng) \*DL/76NOV647

BLOOD SUGAR (analysis); CHEMISTRY, CLINICAL (methods); EVALUATION STUDIES; MATHEMATICS.

Soeldner JS

INSULIN RELEASE IS GLUCOSE ANOMERIC SPECIFIC IN THE HUMAN. Rossini AA, Soeldner JS *J Clin Invest 57*: 1083-8, Apr 76 (Eng) DL/76NOV102

CAVEAT ON GLUCOSE ANOMERS: MEASUREMENTS AND METABOLISM. Rossini AA, Soeldner JS *Horm Metab Res 7*: 522-3, Nov 75 (Eng) \*DL/76NOV500

Soergel KH

ABSORPTION OF SHORT CHAIN FATTY ACIDS FROM THE HUMAN JEJUNUM. Schmitt MG Jr, Soergel KH, Wood CM *Gastroenterology 70*: 211-5, Feb 76 (Eng) \*DL/76NOV493

Sokal JA

LACK OF THE CORRELATION BETWEEN BIOCHEMICAL EFFECTS ON RATS AND BLOOD CARBOXYHEMOGLOBIN CONCENTRATIONS IN VARIOUS CONDITIONS OF SINGLE ACUTE EXPOSURE TO CARBON MONOXIDE. Sokal JA *Arch Toxicol (Berl)* 34: 331-6, 18 Dec 75 (Eng) \*DL/76NOV632

ACIDOSIS; ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BRAIN (metabolism); CARBON MONOXIDE POISONING (metabolism); CARBOXYHEMOGLOBIN (metabolism); DOSE-RESPONSE RELATIONSHIP; DRUG; FEMALE; HEMOGLOBINS (metabolism); LACTATES (metabolism); PYRUVATES (metabolism); RATS; TIME FACTORS.

Sokoloff L

INFLUENCE OF FUNCTIONAL ACTIVITY ON LOCAL CEREBRAL GLUCOSE UTILIZATION. PP. 385-8. Sokoloff L *In: Ingvar DH, Lassen NA, ed. Brain work: the coupling of function, metabolism and blood flow in the brain. Copenhagen, Munksgaard, 1975. W3 AL36 1974b*. (Eng) \*DL/76NOV398

ANIMAL EXPERIMENTS; AUTORADIOGRAPHY; DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); FACIAL NERVE (metabolism); GENICULATE GANGLION (metabolism, physiology); GLUCOSE (metabolism); LIGHT; MONKEYS;

## Diabetes Literature—Author Index

Stalberg E

MONOGRAPH; RATS; RETINA (physiology); SUPERIOR COLICULUS (metabolism, physiology); VISUAL CORTEX (metabolism, physiology).

Sokolov GV

[EFFECT OF ENDOGENOUS RESPIRATION OF CANDIDA MYCOPHERMA ON THE OPERATION OF THE CYTOCHROME SYSTEM AND THE OXIDATION OF GLUCOSE, ETHANOL AND ACIDS OF THE KREBS CYCLE] Sokolov GV, Eremina SS, Lozinov AB *Mikrobiologiya* 44: 970-6, Nov-Dec 75 (Rus) \*DL/76NOV52

ACIDS (metabolism); ALCOHOL, ETHYL (metabolism); CANDIDA (metabolism); CITRATES (metabolism); CYTOCHROME C (metabolism); CYTOCHROMES (metabolism); ELECTRON TRANSPORT; ENGLISH ABSTRACT; GLUCOSE (metabolism); KETOGLUTARIC ACIDS (metabolism); KREBS CYCLE; MALATES (metabolism); OXIDATION-REDUCTION; OXYGEN CONSUMPTION; SUCCINATES (metabolism).

Soler NG

STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

ABNORMALITIES (etiology, mortality); ABNORMALITIES, DRUG-INDUCED; ADULT; AGE FACTORS; ANENCEPHALUS (occurrence); BONE AND BONES (abnormalities); CHILD; DIABETES MELLITUS (classification); FEMALE; FETAL DEATH (etiology); HEART DEFECTS, CONGENITAL (occurrence); HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); INFANT MORTALITY; INFANT, NEWBORN; PREGNANCY IN DIABETES (complications); PREGNANCY, SPINA BIFIDA (occurrence).

Solomon AK

NONELECTROLYTE DIFFUSION ACROSS LIPID BILAYER SYSTEMS. Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng) \*DL/76NOV661

Solomon SS

INHIBITION OF INSULIN DEGRADATION BY NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Burghen G, Duckworth WC, Kitabchi AE, Solomon SS, Poffenbarger PL *J Clin Invest* 57: 1089-92, Apr 76 (Eng) DL/76NOV103

Sols A

REGULATION OF ENZYMES IN SITU. PP. 211-21. Sols A *Inn Keleti T. ed. Mechanism of action and regulation of enzymes*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.32. (Eng) \*DL/76NOV409

ALLOSTERIC REGULATION; ENZYME ACTIVATION (drug effects); *Escherichia coli* (enzymology); GLUCOSE (pharmacodynamics); GLUCOSEPHOSPHATES (pharmacodynamics); GLYCERIN (pharmacodynamics); GLYCOLYSIS; HEXOKINASE (metabolism); HEXOSIDIPHOSPHATES (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); MONOGRAPH; PERMEABILITY; PHOSPHOENOLPYRUVATE (pharmacodynamics); PHOSPHOFRUCTOKINASE (metabolism); SACCHAROMYCES CEREVISIAE (enzymology); TOLUENE (pharmacodynamics).

Soltesz G

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

Somers G

TREATMENT OF DIABETIC COMA WITH SMALL INTRAVENOUS INSULIN BOLUSES. Clumeck N, De Troyer A, Naeije R, Somers G, Smekens L, Balasse EO *Br Med J* 2: 394-6, 14 Aug 76 (Eng) DL/76NOV22

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLLINE AND VERAPAMIL. Somers G, Davis G, Van Obberghen E, Malaise WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

ANIMAL EXPERIMENTS (analysis); CALCIUM (antagonists & inhibitors); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG INTERACTIONS; GLUCOSE (pharmacodynamics); INSULIN (secretion); IPIROVATRIL (antagonists & inhibitors, pharmacodynamics); ISLANDS OF LANGERHANS (cytology, drug effects); PANCREAS; PERFUSION; RATS; STIMULATION, CHEMICAL; THEOPHYLLINE (pharmacodynamics).

Sorokin ES

[EXPEDIENCY OF STUDYING MULTIPLE CAUSES OF DEATH] Sorokin ES *Vrach Delo* 96-9, Dec 75 (Rus) DL/76NOV271

ADULT; AGED; ALCOHOLISM (mortality); CARDIOVASCULAR DISEASES (mortality); COAL MINING; DIABETES MELLITUS (mortality); ENGLISH ABSTRACT; GASTROINTESTINAL DISEASES (mortality); HUMAN; LUNG DISEASES (mortality); MIDDLE AGE; MORTALITY; NEOPLASMS (mortality); UKRAINE.

Soty SP

CARBOHYDRATE AND LIPID METABOLISM DURING HUMAN LABOR: FREE FATTY ACIDS, GLUCOSE, INSULIN, AND LACTIC ACID METABOLISM DURING NORMAL AND OXYTOCIN-INDUCED LABOR FOR POSTMaturity. Kashyap ML, Sivasamboo R, Soty SP, Cheah JS, Gartside PS *Metabolism* 25: 865-75, Aug 76 (Eng) DL/76NOV177

Sotolova O

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkula J, Pejchalova M, Sotolova O, Hartmannova B, Vittek J, Dostal M, Stepanek V, Urbaneck E, Vasko J, Bednarova B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

Spanhake EB

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spanhake EB, Hubschmann K, Theile H, Lorenz K, Heine W, Richter J, Ludtke E, Robbe K, Rahn A, Schmalz H *Kinderarzt Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

RAT STRAIN DIFFERENCES IN CYCLIC-AMP LEVELS IN LIVER AND EPIDIDYMAL FAT PAD TISSUE AS INFLUENCED BY GLUCAGON. Gardner LB, Spanhake EB, Reisher S *J Nutr* 106: 1102-7, Aug 76 (Eng) DL/76NOV138

Speirs RD

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETO-

RY SYSTEM. Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

Spellacy WN

THE EFFECTS OF NORGESTREL ON CARBOHYDRATE AND LIPID METABOLISM OVER ONE YEAR. Spellacy WN, Buhi WC, Birk SA *Am J Obstet Gynecol* 125: 984-6, 1 AUG 76 (Eng) DL/76NOV309

ADULT; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CHOLESTEROL (blood); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIPIDS (metabolism); NORGESTREL (pharmacodynamics); TRIGLYCERIDES (blood).

Spencer HW

ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERURICEMIA IN THE RAT. Spencer HW, Yarger WE, Robins RR *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

ANIMAL EXPERIMENTS (analysis); DIET; FEMALE; GLOMERULAR FILTRATION RATE; INSULIN (metabolism); KIDNEY FAILURE, ACUTE (etiology); KIDNEY (pathology); OXONIC ACID (administration & dosage, pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; URIC ACID (administration & dosage, blood, pharmacodynamics).

Spitzer JJ

MYOCARDIAL SUBSTRATE UTILIZATION IN ANAPHYLACTIC SHOCK. Spitzer JJ *Proc Soc Exp Biol Med* 151: 28-31, Jan 76 (Eng) \*DL/76NOV566

ANAPHYLAXIS (metabolism, physiopathology); ANIMAL EXPERIMENTS; BLOOD PRESSURE; CARBON DIOXIDE (metabolism); CARDIAC OUTPUT; DOGS; ENERGY METABOLISM; FATTY ACIDS, NONESTERIFIED (metabolism); HEART RATE; LACTATES (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PHILIPPINES; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Stacher G

EFFECT OF ALTERATIONS OF BLOOD GLUCOSE LEVELS ON GASTRIC ACID SECRETION, PLASMA GASTRIN, AND PLASMA OSMOLALITY IN MAN. Stacher G, Bauer P, Schulze D, Pointner H, Landgraf M *Am J Dig Dis* 21: 563-8, Jul 76 (Eng) DL/76NOV306

ADULT; BLOOD SUGAR (metabolism); BLOOD; GASTRIC JUICE (secretion); GASTRIN (blood); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); MALE; OSMOLAR CONCENTRATION; TIME FACTORS.

Stachow A

[SIGNIFICANCE OF TRYPTAMINE/INDOLEACETIC ACID RATIO: VALUES OBTAINED IN VARIOUS DERMATOLOGIC DISEASES] Bousquet B, Dreux C, Stachow A *Ann Dermatol Syphiligr (Paris)* 102: 526-8, 1975 (Fre) DL/76NOV328

Stalberg E

SINGLE FIBRE ELECTROMYOGRAPHY FOR MOTOR UNIT STUDY IN MAN. PP. 79-92. Stalberg E, Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlik H *In* Shahani M, ed. *The motor system: neurophysiology and muscle mechanisms*. Amsterdam, Elsevier, 1976. WE 102 M919 1974. (Eng) DL/76NOV130

ACTION POTENTIALS; AMYOTROPHIC LATERAL SCLEROSIS (physiopathology); DIABETIC NEUROPATHIES (physiopathology); ELECTROMYOGRAPHY (methods); FINGERS; HUMAN; MONOGRAPH (mortality); MOTOR NEURONS (physiology); MUSCLE

## Diabetes Literature—Author Index

### Stanescu J

CONTRACTION; MUSCLES (innervation, physiology, physiopathology); MUSCULAR ATROPHY (physiopathology); MYASTHENIA GRAVIS (diagnosis); NERVE REGENERATION; NEURAL TRANSMISSION; NEUROMUSCULAR DISEASES (physiopathology); NEUROMUSCULAR JUNCTION (physiology); UREMIA (physiopathology).

### Stanescu J

[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA] Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern [Med Intern]* 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

### Stankiewicz Z

[MAGNESIUM IN BIOLOGY AND MEDICINE] Opienska-Blaith J, Stankiewicz Z, Kulesza S Postepy Hig Med Dosw 29: 665-717, Nov-Dec 75 (Pol) [118] \*DL/76NOV563

### Stanley CA

HYPERINSULINISM IN INFANCY: DIAGNOSIS BY DEMONSTRATION OF ABNORMAL RESPONSE TO FASTING HYPOGLYCEMIA. Stanley CA, Baker L *Pediatrics* 57: 702-11, May 76 (Eng) DL/76NOV204

BLOOD SUGAR; CASE REPORT; FASTING; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROXYBUTYRATES (blood); HYPERINSULINISM (blood, complications, diagnosis); HYPOGLYCEMIA (etiology); INFANT; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (diagnosis); INSULIN (blood); MALE; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Starkova NT

[FUNCTIONAL TESTS USED IN DIAGNOSIS OF DIFFERENT FORMS OF HYPERCORTICISM] Starkova NT *Sov Med* 104-10, Sept 75 (Rus) DL/76NOV247

ADRENAL GLAND HYPERFUNCTION (diagnosis, physiopathology); ADRENAL GLANDS (physiopathology); CUSHINGS SYNDROME (diagnosis); DEXAMETHASONE (diagnostic use); DOPA (diagnostic use); ENGLISH ABSTRACT; HUMAN; INSULIN (diagnostic use); METYRAPONE (diagnostic use).

### Stary HC

REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS. Strong JP, Eggen DA, Stary HC *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

### Stefani P

[ANGIOGRAPHIC DIAGNOSIS OF PANCREATIC INSULOMAS: PROPOSED ORIGINAL METHOD FOR IMAGE ENHANCEMENT] Biliotti G, Stefani P, Macchini M *Ann Ital Chir* 47: 497-502, 1975 (Ita) DL/76NOV323

### Steffes MW

SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS. Matas AJ, Sutherland DE, Steffes MW, Najarian JS *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

### Stegink LD

INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Witting MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

### Stein TP

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskin MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

AMINO ACIDS (blood, urine); AMMONIA (administration & dosage); ASPARTIC ACID (administration & dosage); GLYCINE (administration & dosage); HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration, dosage, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UREA (urine).

### Steiner DF

CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS. Zuhlike H, Steiner DF, Lernmark A, Lipsay C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

RETENTION AND DEGRADATION OF I25I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS. Terris S, Steiner DF *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In* Reich E, et al., ed. *Proteases and biological control*. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) [104] DL/76NOV129

AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); BINDING SITES; CARBOXYPEPTIDASES (metabolism); CHEMISTRY; HUMAN; INSULIN (biosynthesis); MONOGRAPH (mortality); PANCREAS (metabolism); PEPTIDE HYDROLASES (metabolism); PROINSULIN (metabolism); PROTEIN CONFORMATION; PROTEIN PRECURSORS (metabolism); REVIEW; SPECIES SPECIFICITY; TIME FACTORS; TRYPSIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Stempin SJ

EVALUATION OF RECURRENT DUODENAL ULCER AFTER VAGOTOMY-PYLOROPLASTY. Juler GL, Dagradis AE, Stempin SJ, Combs RC *Am J Surg* 132: 243-8, Aug 76 (Eng) DL/76NOV315

### Stepanek V

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkova J, Pejchalova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasiku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

### Sterling N

[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTRIL) AND TOLBUTAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL] Lindberg IF, Christoffersen EM, Kuusisto A, Lodahl K, Saglid U, Sterling N, Mikkelsen BO *Ugeskr Laeger* 138: 1572-4, 21 Jun 76 (Dan) DL/76NOV262

### Sterling WA

ALTERNATE-DAY PREDNISONE THERAPY IN RECIPIENTS OF RENAL ALLOGRAFTS. RISK AND BENEFITS. Diethelm AG, Sterling

WA, Hartley MW, Morgan JM *Arch Surg* 111: 867-70, Aug 76 (Eng) DL/76NOV337

### Stewart DA

CELLULAR PROTECTION DURING MYOCARDIAL ISCHEMIA: THE DEVELOPMENT AND CHARACTERIZATION OF A PROCEDURE FOR THE INDUCTION OF REVERSIBLE ISCHEMIC ARREST. Hearse DJ, Stewart DA, Braimbridge MV, Chir B *Circulation* 54: 193-202, Aug 76 (Eng) DL/76NOV31

### Stewart IM

OESEOPHAGEAL MOTOR CHANGES IN DIABETES MELLITUS. Stewart IM, Hosking DJ, Preston BJ, Atkinson M *Thorax* 31: 278-83, Jun 76 (Eng) DL/76NOV254

DIABETES MELLITUS (physiopathology); DRUG HYPERSENSITIVITY; ESOPHAGOGASTRIC JUNCTION (drug effects, physiopathology); ESOPHAGUS (physiopathology, radiography); FEMALE; GASTROINTESTINAL MOTILITY (drug effects); HUMAN; MALE; MANOMETRY; METHACHOLINE COMPOUNDS (pharmacodynamics); MIDDLE AGE; VAGUS NERVE (physiopathology).

### Stewart JT

GAS CHROMATOGRAPHIC AND MASS SPECTRAL PROPERTIES OF SULFONYLUREA N-METHYL-N-PERFLUOROACYL DERIVATIVES. Braselton WE Jr, Bransome ED Jr, Ashline HC, Stewart JT, Honigberg IL *Anal Chem* 48: 1386-94, Aug 76 (Eng) DL/76NOV316

### Stewart TC

EVALUATION OF A REAGENT-STRIP METHOD FOR GLUCOSE IN WHOLE BLOOD, AS COMPARED WITH A HEXOKINASE METHOD. Stewart TC *Clin Chem* 22: 74-8, Jan 76 (Eng) \*DL/76NOV648

BILIRUBIN (analysis); BLOOD SUGAR (analysis); COMPARATIVE STUDY; CREATININE (analysis); EVALUATION STUDIES; HEXOKINASE (metabolism); HUMAN; REAGENT STRIPS; URIC ACID (analysis).

### Stock AL

THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET. Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

### Stoffel W

LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS AS STUDIED WITH A NOVEL TYPE OF FLUORESCENT FATTY ACID AND PHOSPHOLIPID PROBES. Stoffel W, Michaelis G *Hoppe Seyler Z Physiol Chem* 357: 21-33, Jan 76 (Eng) \*DL/76NOV504

BINDING SITES; CELL MEMBRANE (analysis); ESCHERICHIA COLI; FATTY ACIDS; FLUORESCENT DYES; LIPOSOMES; MOLECULAR CONFORMATION; MOLECULAR MODELS; PHOSPHATIDYL CHOLINE; PHOSPHATIDYL ETHANOLAMINE; PHOSPHOLIPIDS; PROTEIN BINDING; PROTEIN CONFORMATION; PROTEINS; SPECTROMETRY, FLUORESCENCE; TEMPERATURE.

### Stothart P

TIME-MOTION AND PHYSIOLOGICAL ASSESSMENTS OF ICE HOCKEY PERFORMANCE. Green H, Bishop P, Houston M, McKillop R, Norman R, Stothart P *J Appl Physiol* 40: 159-63, Feb 1976 (Eng) \*DL/76NOV509

## Diabetes Literature—Author Index

Swinnen ME

### Strand FL

**THE INFLUENCE OF HORMONES ON THE NERVOUS SYSTEM (WITH SPECIAL EMPHASIS ON POLYPEPTIDE HORMONES).** Strand FL. *BioScience* 25: 568-77, Sep 75 (Eng) \*DL/76NOV490

**ACTION POTENTIALS** (drug effects); **ADRENAL CORTEX HORMONES** (pharmacodynamics); **ANIMAL EXPERIMENTS**; **BEHAVIOR, ANIMAL** (drug effects); **CASTRATION; CENTRAL NERVOUS SYSTEM** (drug effects); **CORTICOTROPIN** (pharmacodynamics); **DRUG IMPLANTS**; **FEMALE; HORMONES** (pharmacodynamics); **HUMAN; MALE; NERVOUS SYSTEM** (drug effects, growth & development); **PEPTIDES** (pharmacodynamics); **PERIPHERAL NERVES** (drug effects); **RATS; SEX HORMONES** (pharmacodynamics); **SEX MATURATION**; **STEROIDS** (pharmacodynamics); **SPECIAL LIST REPRODUCTION; THYROXINE** (pharmacodynamics).

### Strohfeldt P

**[BIOCHEMICAL FORM OF A PARANEOPLASTIC CUSHINGS SYNDROME (AUTHORS TRANSL)]** Strohfeldt P. *Munch Med Wochenschr* 118: 883-4, 2 Jul 76 (Ger) DL/76NOV179

**BRADYCARDIA** (etiology); **BRONCHIAL NEOPLASMS** (complications, diagnosis, metabolism); **CASE REPORT; CORTICOTROPIN** (biosynthesis); **CUSHINGS SYNDROME** (diagnosis, etiology); **DIAGNOSTIC ERRORS**; **ENGLISH ABSTRACT**; **HUMAN**; **HYPOKALEMIA** (etiology); **MALE; MIDDLE AGE**; **NEOPLASTIC ENDOCRINE-LIKE SYNDROMES**; **PREDIABETIC STATE** (etiology); **STOMACH ULCER** (etiology).

### Strong JP

**DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS. RELATION OF SELECTED DIETARY COMPONENTS TO RAISED CORONARY LESIONS.** Moore MC, Guzman MA, Schilling PE, Strong JP. *J Am Diet Assoc* 68: 216-23, Mar 76 (Eng) \*DL/76NOV529

**REVERSIBILITY OF FATTY STREAKS IN RHESUS MONKEYS.** Strong JP, Eggen DA, Stary HC. *Primates Med* 9: 300-20, 1976 (Eng) [19] \*DL/76NOV674

**ANIMAL EXPERIMENTS**; **AORTA** (metabolism, pathology, ultrastructure); **CAROTID ARTERIES** (pathology); **CHOLESTEROL ESTERS** (metabolism); **CHOLESTEROL** (blood); **CORONARY VESSELS** (pathology, ultrastructure); **DIET, ATHEROGENIC**; **DISEASE MODELS, ANIMAL**; **FATTY STREAK, ARTERIAL** (pathology, metabolism); **MACACA**; **MALE**; **MONKEYS**; **REVIEW**; **RHESUS MONKEYS**; **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Stucki JW

**REGULATION OF CITRATE TRANSPORT IN RAT LIVER MITOCHONDRIA METABOLIZING PYRUVATE.** Stucki JW. *FEBS Lett* 61: 171-5, 15 Jan 76 (Eng) \*DL/76NOV486

**ANIMAL EXPERIMENTS**; **BIOLOGICAL TRANSPORT, ACTIVE**; **CITRATES** (metabolism, pharmacodynamics); **CREATINE** (pharmacodynamics); **MALATES** (metabolism); **MEMBRANES** (metabolism); **MITOCHONDRIA**; **LIVER** (metabolism, drug effects); **PHILIPPINES**; **PYRUVATES** (metabolism); **RATS**.

### Suda M

**CIRCADIAN RHYTHMS IN DISACCHARIDASES OF RAT SMALL INTESTINE AND ITS RELATION TO FOOD INTAKE.** Saito M, Murakami E, Suda M. *Biochim Biophys Acta* 421: 177-9, 14 Jan 76 (Eng) \*DL/76NOV431

### Sul HS

**RELATIONSHIP OF PHOSPHOENOLPYRUVATE TRANSPORT, ACYL COENZYME A INHIBITION OF ADENINE NUCLEOTIDE TRANSLOCASE AND CALCIUM ION EFFLUX IN GUINEA PIG HEART MITOCHONDRIA.** Sul HS, Shrago E, Shug AL. *Arch Biochem Biophys* 172: 230-7, Jan 76 (Eng) \*DL/76NOV628

**ADENINE NUCLEOTIDE TRANSLOCASE** (antagonists & inhibitors); **ADENOSINE DIPHOSPHATE** (metabolism); **ADENOSINE TRIPHOSPHATE** (metabolism); **ANIMAL EXPERIMENTS**; **ATRACTYLOSIDE** (pharmacodynamics); **BIological TRANSPORT, ACTIVE**; **CALCIUM** (metabolism); **COENZYME A** (pharmacodynamics); **GUINEA PIGS**; **KINETICS**; **MALE**; **MITOCHONDRIA**, **MUSCLE** (metabolism, drug effects); **MYOCARDIUM**; **NUCLEOTIDYLTRANSFERASES** (antagonists & inhibitors); **PHOSPHOENOLPYRUVATE** (metabolism, pharmacodynamics); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Sulaiman WR

**DIFFERENCES IN THE METABOLIC AND HORMONAL RESPONSE TO EXERCISE BETWEEN RACING CYCLISTS AND UNTRAINED INDIVIDUALS.** Bloom SR, Johnson RH, Park DM, Rennie MJ, Sulaiman WR. *J Physiol (Lond)* 258: 1-18, Jun 76 (Eng) DL/76NOV142

### Sullivan AC

**Possible INTERRELATIONSHIP BETWEEN METABOLITE FLUX AND APPETITE.** PP. 115-25. Sullivan AC, Tricari J. *In: Novin D et al., ed. Hunger basic mechanisms and clinical implications*. New York, Raven Press, 1975. WI 102 H936 1975. (Eng) \*DL/76NOV407

**ANIMAL EXPERIMENTS**; **APPETITE** (drug effects); **CARBON** (metabolism); **CITRATES** (pharmacodynamics); **DIETARY CARBOHYDRATES** (metabolism); **EATING** (drug effects); **FEAR**; **LIVER GLYCOGEN** (biosynthesis); **MONOGRAPH**; **RATS**.

### Sullivan L

**METABOLIC AND PHYSIOLOGIC EFFECTS OF PHYSICAL TRAINING IN HYPERPLASTIC OBESITY.** Sullivan L. *Scand J Rehabil Med* 1-38, 1976 (Eng) DL/76NOV243

**ADULT**; **BLOOD SUGAR** (metabolism); **BODY WEIGHT**; **DIET, REDUCING**; **ENERGY METABOLISM**; **FEMALE**; **HUMAN**; **HYDROCORTISONE** (metabolism); **HYPERPLASIA**; **INSULIN** (blood); **MALE**; **MIDDLE AGE**; **MOTIVATION**; **NOREPINEPHRINE** (urine); **OBESITY** (metabolism, rehabilitation, therapy); **OXYGEN CONSUMPTION**; **PHYSICAL EDUCATION AND TRAINING**; **PHYSICAL FITNESS**; **SOMATOTROPIN** (metabolism).

### Sullivan SN

**GASTROINTESTINAL HORMONES.** Sullivan SN. *Can J Surg* 19: 295-310, Jul 76 (Eng) DL/76NOV26

**CHOLECYSTOKININ**; **DIAGNOSIS**; **DIFFERENTIAL**; **DIARRHEA**; **ENDOCRINE GLANDS** (physiology); **ESOPHAGOGASTRIC JUNCTION**; **GASTRIN**; **GASTROINTESTINAL HORMONES** (deficiency); **GASTROINTESTINAL SYSTEM** (metabolism); **HUMAN**; **HYPOGLYCEMIA**; **INTESTINAL DISEASES** (etiology); **INTESTINE, LARGE** (metabolism); **PANCREAS** (metabolism); **PEPTIC ULCER** (metabolism); **PROSTAGLANDINS**; **PYLORUS**; **SECRETIN**; **SYNDROME**; **ZOLLINGER-ELLISON SYNDROME** (diagnosis).

### Sumi SM

**DIABETIC AMYOTROPHY—A MORE DIFFUSE PROCESS THAN CLINICALLY SUSPECTED.** Donovan WH, Sumi SM. *Arch Phys Med Rehabil* 57: 397-403, Aug 76 (Eng) DL/76NOV335

### Sundberg DK

**THE INVOLVEMENT OF CYCLIC-3,5-AMP IN THE RELEASE OF HORMONES FROM THE ANTERIOR PITUITARY IN VITRO.** Sundberg DK, Fawcett CP, McCann SM. *Proc Soc Exp Biol Med* 151: 149-54, Jan 76 (Eng) \*DL/76NOV565

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE** (metabolism); **ADENOSINE MONOPHOSPHATE** (pharmacodynamics); **ANIMAL EXPERIMENTS**; **DIBUTYRYL CYCLIC AMP** (pharmacodynamics); **ENTEROTOXINS** (pharmacodynamics); **FISH** (secretion); **GUANOSINE CYCLIC 3,5 MONOPHOSPHATE** (pharmacodynamics); **HYPOTHALAMUS** (physiology); **IN VITRO**; **LH** (secretion); **LH-FSH** (releasing hormone (pharmacodynamics)); **MALE**; **PITUITARY GLAND** (metabolism); **PITUITARY GLAND, ANTERIOR** (metabolism, secretion, drug effects); **PITUITARY HORMONES, ANTERIOR** (secretion); **POTASSIUM** (pharmacodynamics); **PROLACTIN** (secretion); **RATS**; **SOMATOTROPIN** (secretion); **THEOPHYLLINE** (pharmacodynamics); **THYROTROPIN** (releasing hormone (pharmacodynamics)); **THYROTROPIN** (secretion); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

### Surinov BP

**[ISOENZYMES OF ESTERASE AND ALKALINE PHOSPHATASE IN BLOOD SERUM AND ADIPOSE TISSUE OF RATS AFTER PARTIAL PANCREATECTOMY]** Surinov BP, Sheyanov GG. *Vopr Med Klin* 21: 355-8, Jul-Aug 75 (Rus) \*DL/76NOV596

**ADIPOSE TISSUE** (enzymology); **ALKALINE PHOSPHATASE** (metabolism, blood); **ANIMAL EXPERIMENTS**; **ARYLSULFATASES** (metabolism, blood); **CARBOXYLIC ESTER HYDROLASES** (metabolism, blood); **ENGLISH ABSTRACT**; **ISOENZYMES** (metabolism); **PANCREATECTOMY**; **RATS**; **SULFATASES** (metabolism).

### Sutherland DE

**SHORT-TERM CULTURE OF ADULT PANCREATIC FRAGMENTS FOR PURIFICATION AND TRANSPLANTATION OF ISLETS OF LANGERHANS.** Matas AJ, Sutherland DE, Steffes MW, Najarian JS. *Surgery* 80: 183-91, AUG 76 (Eng) DL/76NOV251

### Suzuki K

**PLASMA OXYTOCIN DETERMINATIONS IN PREGNANCY WITH DIABETES INSIPIDUS.** Sende P, Pantelakis N, Suzuki K, Bashore R. *Obstet Gynecol* 48: 383-413, Jul 76 (Eng) DL/76NOV193

### Swift HH

**BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART.** Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF. *Ciba Found Symp* 41: 7-30, 1976 (Eng) \*DL/76NOV46

### Swillens S

**MOLECULAR TRANSPORT IN THYROID SLICES.** Paiva M, Sande JV, Swillens S, Dumont JE. *Biochim Biophys Acta* 419: 349-57, 21 Jan 76 (Eng) \*DL/76NOV428

### Swinnen ME

**HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS.** Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME. *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

## Diabetes Literature—Author Index

### Syvalahti E

#### Syvalahti E

SERUM GROWTH HORMONE, SERUM IMMUNOREACTIVE INSULIN AND BLOOD GLUCOSE RESPONSE TO INTRAVENOUS TOLBUTAMIDE IN POSTMENOPAUSAL WOMEN WITH AND WITHOUT NATURAL OESTROGEN THERAPY. Syvalahti E, Erkkola R, Punnonen R, Rauramo L. *Acta Pharmacol Toxicol (Kbh)* 38: 177-85, Mar 76 (Eng) DL/76NOV295

BLOOD SUGAR (metabolism); ESTROGENS (pharmacodynamics, therapeutic use); FEMALE; HUMAN; INJECTIONS; INTRAVENOUS; INSULIN (blood); MENOPAUSE; MIDDLE AGE; OBESITY (blood); SOMATOTROPIN (blood); TOLBUTAMIDE (administration & dosage, pharmacodynamics).

#### Syzagntseva LM

[EFFECT OF INSULIN ON TOTAL POTASSIUM LEVEL IN PATIENTS WITH DIABETES MELLITUS] Bogoliubov VM, Ershova LM, Kaplan MA, Syzagntseva LM. *Ter Arkh* 48: 113-6, 1976 (Rus) DL/76NOV252

#### Szadkowski M

[INCIDENCE AND COURSE OF DIABETES AS WELL AS ITS COMPLICATIONS IN ERITRHEA UNDER CONDITIONS OF MAL-NUTRITION AND IRREGULAR INSULIN TREATMENT] Szadkowski M. *Pol Tyg Lek* 31: 853-5, 17 May 76 (Pol) DL/76NOV211

ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (complications, drug therapy, occurrence); ENGLISH ABSTRACT; ETHIOPIA; FEMALE; HEALTH EDUCATION; HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; NUTRITION DISORDERS (occurrence).

#### Szasz I

MECHANISM OF CA-DEPENDENT K-TRANSPORT IN HUMAN RED CELLS. PP. 167-80. Gardos G, Szasz I, Sarkadi B. *In* Gardos G, Szasz I, ed. *Biomembrane<sub>0</sub> structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV403

#### Szczesna E

ISOLATION OF A BIOLOGICALLY ACTIVE MESSENGER RNA: PREPARATION FROM FISH PANCREATIC ISLETS BY OLIGO(2'-DEOXYTHYMIDYLIC ACID) AFFINITY CHROMATOGRAPHY. Permutt MA, Biesbroek J, Chyn R, Boime I, Szczesna E, McWilliams D. *Ciba Found Symp* 41: 97-116, 1976 (Eng) DL/76NOV47

#### Taegtmeyer H

MECHANISM OF THE INHIBITION OF MYOCARDIAL PROTEIN SYNTHESIS DURING OXYGEN DEPRIVATION. Lesch M, Taegtmeyer H, Peterson MB, Vernick RM. *Am J Physiol* 230: 120-6, Jan 76 (Eng) \*DL/76NOV621

#### Tager HS

BIOSYNTHESIS OF INSULIN AND GLUCAGON: A VIEW OF THE CURRENT STATE OF THE ART. Lernmark A, Chan SJ, Choy R, Nathans A, Carroll R, Tager HS, Rubenstein AH, Swift HH, Steiner DF. *Ciba Found Symp* 41: 7-30, 1976 (Eng) [89] DL/76NOV46

PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES. PP. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhkne H. *In* Reich E, et al, ed. *Proteases and biological control*. Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) [104] DL/76NOV129

GLUCAGON-LIKE AND INSULIN-LIKE HORMONES OF THE INSECT NEUROSECRETORY SYSTEM. Tager HS, Markese J, Kramer KJ, Speirs RD, Childs CN. *Biochem J* 156: 515-20, 15 Jun 76 (Eng) DL/76NOV368

ANIMAL EXPERIMENTS (analysis); CHROMATOGRAPHY, GEL; GLUCAGON; GLUCOSE (analysis); GLYCOGEN (analysis); HEMOLYMPH (analysis); INSECT HORMONES (analysis); INSULIN; INVERTEBRATE HORMONES (analysis); LEPIDOPTERA (analysis); NEUROSECRETORY SYSTEMS (analysis); RADIOIMMUNOASSAY; TREHALOSE (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

#### Taggart P

SOME METABOLIC EFFECTS OF BETA-BLOCKADE ON TEMPERATURE REGULATION AND IN THE PRESENCE OF TRAUMA. PP. 248-59. Carruthers ME, Taggart P, Salpekar PD, Gatt JA. *In* Schweizer W, ed. *Beta-blockers—present status and future prospects*. Bern, Huber, 1974. QV 132 B562 1974. (Eng) \*DL/76NOV640

#### Tagliamonte A

Possible role of insulin in the transport of tyrosine and tryptophan from blood to brain. Tagliamonte A, Demontis MG, Olianas M, Onali PL, Gessa GL. *Adv Exp Med Biol* 69: 89-94, 1976 (Eng) DL/76NOV301

ANIMAL EXPERIMENTS (analysis); BLOOD-BRAIN BARRIER (drug effects); BRAIN (metabolism); GLUCOSE (pharmacodynamics); INSULIN (pharmacodynamics); MALE; RATS; SERUM ALBUMIN; TRYPTOPHAN (blood, metabolism); TYROSINE (blood, metabolism).

#### Takahashi K

STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMIC. PP. 232-42. Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfien A. *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV414

#### Takahashi S

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzik C, Geck P, Pfeiffer B. *In* Hatotani N, ed. *Psychoneuroendocrinology*. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395

ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); DEPRESSION, BIPOLAR (physiopathology); FEMALE; HUMAN; HYDROXYTRYPTOPHAN (diagnostic use, therapeutic use); MALE; MIDDLE AGE; MONOGRAPH; PITUITARY GLAND (physiopathology); PSYCHOSES, MANIC-DEPRESSIVE (physiopathology, blood, drug therapy); SOMATOTROPIN (blood).

#### Takahashi SY

[CARBOHYDRATE METABOLISM OF DIAPAUSING INSECTS (AUTHORS TRANSL)] Kageyama T, Takahashi SY. *Protein Nucleic Acid Enzyme (Tokyo)* 20: 1285-300, Dec 75 (Jpn) [134] \*DL/76NOV570

#### Takahashi Y

EFFECT OF GLUCOSE AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE ON THE SYNTHESIS OF SUCCINATE DEHYDROGENASE AND ISOCITRATE LYASE IN *ESCHERICHIA COLI*. Takahashi Y. *J Biochem (Tokyo)* 78: 1097-100, Nov 75 (Eng) \*DL/76NOV511

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); CHLORAMPHENICOL (pharmacodynamics); *ESCHERICHIA COLI* (enzymology); GLUCOSE (pharmacodynamics); KETOACID-LYASES (biosynthesis); OXIDOREDUCTASES (metabolism); OXYGEN CONSUMPTION; PUROMYCIN

(pharmacodynamics); SUCCINATE DEHYDROGENASE (biosynthesis).

#### Tamarit Torres J

[DIFFERENCES FOUND IN SERUM SEROTONIN BETWEEN A GROUP OF NORMAL AND SUBJECTS OF OBESIVE PATIENTS FOLLOWING INTRAVENOUS TOLBUTAMIDE ADMINISTRATION] Castel Aznar C, Tamarit Torres J, Hervas Olivares F, Pozuelo Escudero V. *Rev Iber Endocrinol* 23: 239-61, May-Jun 76 (Spa) DL/76NOV236

#### Taminato T

POTENTIATION BY THEOPHYLLINE OF ARGININE-INDUCED GLUCAGON SECRETION IN THE ISOLATED PERFUSED RAT PANCREAS. Goto Y, Seino Y, Taminato T, Imura H. *Horm Metab Res* 8: 240-1, May 76 (Eng) DL/76NOV76

#### Tanabe S

EFFECT OF FEEDING A CARBOHYDRATE-FREE DIET ON THE GROWTH AND METABOLISM OF PRERUMINANT KIDS. Tanabe S, Kameoka K. *Br J Nutr* 36: 47-59, Jul 76 (Eng) DL/76NOV6

AGE FACTORS; ANIMAL EXPERIMENTS (analysis); BODY WEIGHT; CARBOHYDRATES (deficiency); CATTLE; CHOLESTEROL (metabolism); DEFICIENCY DISEASES (drug therapy); ENERGY METABOLISM; FATTY ACIDS, NONESTERIFIED (metabolism); FEMALE; GLUCOSE (therapeutic use); GLYCERIN (therapeutic use); GOATS (physiology); HYPERGLYCEMIA (etiology); LIVER GLYCOGEN (metabolism); LIVER (metabolism); MALE; MILK (adverse effects); PHOSPHOLIPIDS (metabolism); PROPIONATES (therapeutic use); PROPYONIC ACIDS (therapeutic use); TRIGLYCERIDES (metabolism).

#### Tanabe T

DIETARY AND HORMONAL REGULATION OF THE CONTENT OF ACETYL COENZYME A CARBOXYLASE-SYNTHESIZING POLYSOMES IN RAT LIVER. Nakanishi S, Tanabe T, Horikawa S, Numa S. *Proc Natl Acad Sci USA* 73: 2304-7, Jul 76 (Eng) DL/76NOV214

#### Tanaka K

JAMAICAN VOMITING SICKNESS. BIOCHEMICAL INVESTIGATION OF TWO CASES. Tanaka K, Kean EA, Johnson B. *N Engl J Med* 295: 461-7, 26 Aug 76 (Eng) DL/76NOV182

ANIMAL EXPERIMENTS (analysis); CASE REPORT; CHILD, PRESCHOOL; CYCLOPROPANES (metabolism); DIAGNOSIS, DIFFERENTIAL; DICARBOXYLIC ACIDS (urine); FATTY ACIDS, VOLATILE (blood, urine); FEMALE; FOOD POISONING (etiology, metabolism, urine); FRUIT (poisoning); GLUCONEOGENESIS; HUMAN; HYDROXY ACIDS (urine); HYPOGLYCEMIA (etiology); JAMAICA; RATS; REYES SYNDROME (diagnosis); TOXINS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VALERATES (urine); VOMITING (etiology).

#### Tanganelli I

[BEHAVIOR OF PLASMA IRI, HGH AND CORTISOL AFTER ADMINISTRATION OF LEVODOPA IN PATIENTS WITH HEPATIC CIRRHOSIS] Palazzuoli V, Gragnoli G, Favilli R, Tanganelli I, Migliarese G. *Boll Soc Ital Biol Sper* 52: 630-5, 15 MAY 76 (Ita) DL/76NOV2

#### Tankeyoo M

A STUDY OF GLUCOSE TOLERANCE, SERUM TRANSAMINASE AND LIPIDS IN WOMEN USING DEPOT-MEDROXYPROGESTERONE ACETATE AND A COMBINATION-TYPE

## Diabetes Literature—Author Index

Thees E

**ORAL CONTRACEPTIVE.** Tankeyoon M, Dusitn N, Poshyachinda V, Larsson-Cohn U. *Contraception* 14: 199-214, Aug 76 (Eng) DL/76NOV35

**ADOLESCENCE; ADULT; ALANINE AMINOTRANSFERASE (blood); AMINOTRANSFERASES (blood); ASPARTATE AMINOTRANSFERASE (blood); BLOOD SUGAR (metabolism); CHOLESTEROL (blood); COMPARATIVE STUDY; CONTRACEPTIVES, ORAL (pharmacodynamics); CONTRACEPTIVES, ORAL, COMBINED (pharmacodynamics); DRUG EVALUATION; ETHINYL ESTRADIOL (pharmacodynamics); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIPIDS (blood); MEDROXYPROGESTERONE (pharmacodynamics); NORGESTREL (pharmacodynamics); TRIGLYCERIDES (blood).**

Tareev EM

**[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES]** Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevraeva OG. *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

ADULT; ANTIGENS (isolation & purification); CHRONIC DISEASE; HUMAN; INSULIN (blood, immunology); KIDNEY DISEASES (blood, immunology); MIDDLE AGE.

Tata JR

**GROWTH-PROMOTING ACTIONS OF PEP-TIDE HORMONES.** Tata JR. *Ciba Found Symp* 41: 297-312, 1976 (Eng) [57] DL/76NOV42

ANIMAL EXPERIMENTS (analysis); CELL NUCLEUS (drug effects, metabolism); CORTICOTROPIN (physiology); HYPOPHYSECTOMY; INSULIN (physiology); LIPID MOBILIZATION (drug effects); PROLACTIN (physiology); RATS; REVIEW; RIBOSOMES (drug effects, metabolism, ultrastructure); RNA POLYMERASE (metabolism); SOMATOTROPIN (pharmacodynamics, physiology); TEMPLATES; THYROTROPIN (physiology); TRANSCRIPTION, GENETIC (drug effects); TRANSLATION, GENETIC (drug effects).

**GROWTH AND DEVELOPMENTAL HORMONES AS CHEMICAL MESSENGERS.** PP. 261-78. Tata JR. In *Vassilieva-Popova JG, ed. Physical and chemical bases of biological information transfer*. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [2] \*DL/76NOV394

ANIMAL EXPERIMENTS; CELL NUCLEUS (metabolism, drug effects); CYTOPLASM (metabolism); DNA REPLICATION (drug effects); GROWTH (drug effects); HORMONES (physiology, pharmacodynamics); METABOLISM (drug effects); MONOGRAPH; REVIEW; RIBOSOMES (drug effects); RNA POLYMERASE (metabolism); TEMPLATES; TRANSCRIPTION, GENETIC (drug effects); TRANSLATION, GENETIC (drug effects).

Tatsievskii VA

**[LEVEL OF IMMUNOREACTIVE INSULIN OF BLOOD SERUM IN CHRONIC KIDNEY DISEASES]** Tareev EM, Kotliarov EV, Poliantseva LR, Tatsievskii VA, Nevraeva OG. *Klin Med (Mosk)* 53: 25-9, Oct 75 (Rus) DL/76NOV158

Tavormina JB

**CHRONICALLY ILL CHILDREN. A PSYCHOLOGICALLY AND EMOTIONALLY DEVIANT POPULATION** Tavormina JB, Kastner LS, Slater PM, Watt SL. *J Abnorm Child Psychol* 4: 99-110, 1976 (Eng) DL/76NOV110

ACHIEVEMENT; ADAPTATION; PSYCHOLOGICAL; ADOLESCENCE; ADULT; ASTHMA (complications); CHILD BEHAVIOR DISORDERS (complications); CHILD; CHILD, PRESCHOOL; CHRONIC DISEASE; CYSTIC FIBROSIS (complications); DEFENSE MECHANISMS; DEPENDENCY

(PSYCHOLOGY) (drug effects); DIABETES MELLITUS; JUVENILE (complications); FEMALE; HEARING DISORDERS (complications); HUMAN; INTERNAL-EXTERNAL CONTROL; MALE; PERSONAL SATISFACTION; PERSONALITY INVENTORY; PROJECTIVE TECHNIQUES; SELF CONCEPT; SEX FACTORS; SOCIAL ADJUSTMENT; SOCIAL DESIRABILITY.

Taylor AL

**METABOLIC DISORDERS CAUSING COMA AND SHOCK.** PP. 175-85. Taylor AL. In *Findeis IC, ed. Emergency management of the critical patient*. New York, Stratton, 1975. W1 EM662H v2 1975. (Eng) DL/76NOV119

ACIDOSIS, DIABETIC (complications); COMA (etiology); DIABETIC COMA; HUMAN; HYPERCALCEMIA (complications); HYPERGLYCEMIA (complications); HYPOGLYCEMIA (complications); HYPOTHYROIDISM (complications); KETOSIS, DIABETIC (complications); METABOLIC DISEASES (complications); MONOGRAPH (mortality); OSMOLAR CONCENTRATION; SHOCK (etiology).

Tchobroutsky C

**[THE LECITHIN-SPHINOGOMYELIN RATIO IN THE AMNIOTIC FLUID IN INSULIN-DEPENDENT DIABETIC PREGNANCIES]** Tchobroutsky C, Cedard L, Rouvillois JL, Amiel-Tison C. *J Gynecol Obstet Biol Reprod (Paris)* 4: 93-8, Jan-Feb 75 (Fre) DL/76NOV113

AMNIOTIC FLUID (analysis); ENGLISH ABSTRACT; FEMALE; GESTATIONAL AGE; HUMAN; HYALINE MEMBRANE DISEASE (prevention & control); INFANT; NEWBORN; INSULIN (therapeutic use); LECITHINS (analysis); LUNG (embryology); PREGNANCY IN DIABETES (drug therapy, metabolism); PREGNANCY; SPHINOGOMYELINS (analysis).

Tereshchenko IP

**[PARAENDOCRINE SYNDROMES IN THE PATHOGENESIS OF MALIGNANT GROWTH]** Kashulina AP, Tereshchenko IP. *Patol Fiziol Eksp Ter* 79-85, Nov-Dec 75 (Rus) [105] DL/76NOV202

Termini TE

**POLYNUCLEOTIDE AGGREGATES ENHANCE THE TRANSPORT OF PROTEIN AT THE SURFACE OF CULTURED MAMMALIAN CELLS.** Ryser HJ, Termini TE, Barnes PR. *J Cell Physiol* 87: 221-8, Dec 75 (Eng) \*DL/76NOV520

Terris S

**RETENTION AND DEGRADATION OF 125I-INSULIN BY PERFUSED LIVERS FROM DIABETIC RATS.** Terris S, Steiner DF. *J Clin Invest* 57: 885-96, Apr 76 (Eng) DL/76NOV106

ANIMAL EXPERIMENTS (analysis); CELL MEMBRANE (metabolism); CHROMATOGRAPHY, GEL; CONCANAVALIN A (pharmacodynamics); DEPRESSION, CHEMICAL; DIABETES MELLITUS (chemically induced, metabolism); GLUCAGON (pharmacodynamics); INSULIN (metabolism); INULIN (analogs & derivatives, metabolism); IODINE RADIOISOTOPES; LIVER (metabolism); MALE; METHYLGLUUCOSIDES (metabolism); RATS; STREPTOZOTOCIN; PERFUSION; PROINSULIN (metabolism); PROINSULIN (metabolism); RATS; STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Terry EN

**EVALUATION OF THE USE OF MICROCIRCULATORY FINDINGS IN THE ANALYSIS OF CLINICAL DISEASE.** Redisch W, Rouen LR, Terry EN, Clauss RH. *Bibl Anat* 13: 362-3, 1975 (Eng) DL/76NOV352

Teslenko VG

**[GLUCOSE TOLERANCE AND CONTENT OF IMMUNOREACTIVE INSULIN IN PATIENTS WITH ISCHEMIC HEART DISEASE]** Livergant luE, Teslenko VG, Lebedev SV, Krupchitskaya KI. *Vrach Delo* 76-80, Dec 75 (Rus) DL/76NOV270

Thajchayapong P

**DEMONSTRATION THAT CYCLIC ADENOSINE 3,5-MONOPHOSPHATE MEDIATES THE LIPOLYtic ACTION OF PARATHYROID HORMONE.** Thajchayapong P, Queener SF, McClintock R, Allen DO, Bell NH. *Metab Res* 8: 190-5, May 76 (Eng) DL/76NOV71

**ADENOSINE CYCLIC 3,5-MONOPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL EXPERIMENTS (analysis); CALCIUM (pharmacodynamics); GLYCERIN (metabolism); INSULIN (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); LIPID MOBILIZATION (drug effects); MALE; PARATHYROID HORMONE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); PROSTAGLANDINS E (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

**ON THE LIPOLYtic ACTION OF PARATHYROID HORMONE IN MAN.** Sinha TK, Thajchayapong P, Queener SF, Allen DO, Bell NH. *Metabolism* 25: 251-60, Mar 76 (Eng) \*DL/76NOV549

Thakur RN

**ON THE MUSCULAR FUEL OF THE AIR SAC IN AN AIR BREATHING FISH.** Thakur RN, Singh BR. *Acta Histochim (Jena)* 54: 322-7, 1975 (Eng) \*DL/76NOV605

ANIMAL EXPERIMENTS; BLOOD SUGAR; ENERGY METABOLISM; FISHES (anatomy & histology, blood); GILLS (anatomy & histology); GLYCOGEN (analysis); MUCOPOLYSACCHARIDES (analysis); MUSCLE PROTEINS (analysis); MUSCLES (analysis, metabolism); MYOFIBRILS (analysis); MYOGLOBIN (analysis); PHOSPHOLIPIDS (analysis); RESPIRATION; SPECIES SPECIFICITY; SPHINHYDRYL COMPOUNDS (analysis).

Thayssen P

**DIALYSIS THERAPY OF TERMINAL URAEMIA IN INSULIN-REQUIRING DIABETIC PATIENTS.** Roed-Petersen K, Thayssen P, Nielsen FU, Kemp E. *Scand J Urol Nephrol* 125-8, 6-7 Mar 75 (Eng) DL/76NOV239

**RENAL TRANSPLANTATION IN PATIENTS WITH INSULIN-REQUIRING DIABETES AND RENAL FAILURE.** Thayssen P, Roed-Petersen K, Nielsen FU, Kemp E. *Scand J Urol Nephrol* 129-32, 6-7 Mar 75 (Eng) DL/76NOV240

ADULT; DIABETES MELLITUS (complications, drug therapy, mortality); FEMALE; HUMAN; INSULIN (therapeutic use); KIDNEY FAILURE, CHRONIC (etiology, surgery); KIDNEY FAILURE, CHRONIC (mortality); KIDNEY (transplantation); MALE; MIDDLE AGE; TISSUE SURVIVAL.

Thees E

**ISOLATED PLASMA MEMBRANE VESICLES AS MODEL SYSTEM FOR STUDIES ON SUGAR TRANSPORT IN THE PROXIMAL TUBULE.** P. 171. Kinne R, Murer H, Sachs G, Thees E, Kinne-Saffran E, Le Magne J. In *Colloque European de physiologie renale*. Paris, INSERM, 1974. W1 300 E89c 1974. (Eng) \*DL/76NOV401

## Diabetes Literature—Author Index

Theile H.

Theile H

[RECOMMENDATIONS FOR THERAPY OF DIABETIC COMA IN CHILDHOOD] Schukowski H, Spahn U, Hubschmann K, Theile H, Lorenz K, Heine W, Richter I, Ludtke E, Robbie K, Rahn A, Schmalz H *Kinderärztl Prax* 44: 235-40, May 76 (Ger) DL/76NOV155

Thiele OW

[EFFECT OF DIETARY FATTY ACIDS WITH TRANS-DOUBLE BONDS] Thiele OW *Hipposkritis* 46: 247-9, Jun 75 (Ger) \*DL/76NOV505

DIETARY FATS (metabolism); FATTY ACIDS, UNSATURATED (metabolism); HUMAN; MARGARINE (metabolism).

Thiessen JJ

PLASMA PROTEIN BINDING OF DIAZEPAM AND TOLBUTAMIDE IN CHRONIC ALCOHOLICS. Thiessen JJ, Sellers EM, Denbigh P, Dolman L *J Clin Pharmacol* 16: 345-51, Jul 76 (Eng) DL/76NOV109

ALCOHOLISM (blood); BLOOD PROTEINS (metabolism); CHRONIC DISEASE; DIAZEPAM (blood); FEMALE; HEPATITIS, TOXIC (blood); HUMAN; MALE; PROTEIN BINDING; SERUM ALBUMIN (metabolism); TOLBUTAMIDE (blood).

Thilo L

RANDOMIZATION OF MEMBRANE LIPIDS IN RELATION TO TRANSPORT SYSTEM ASSEMBLY IN *ESCHERICHIA COLI*. Thilo L, Overath P *Biochemistry* 15: 328-34, 27 Jan 76 (Eng) \*DL/76NOV424

BIOLOGICAL TRANSPORT; CELL MEMBRANE (metabolism, ultrastructure); *ESCHERICHIA COLI* (metabolism, ultrastructure); FATTY ACIDS, UNSATURATED (metabolism); LIPIDS (metabolism); SPECTROMETRY, FLUORESCENCE; STRUCTURE-ACTIVITY RELATIONSHIP; TEMPERATURE.

Thomas BJ

STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON. Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV332

Thomas VG

INFLUENCE OF LOW AMBIENT TEMPERATURE AND DIETARY LIPIDS ON ADIPOSE TISSUE AND PLASMA FATTY ACID COMPOSITION OF THE JAPANESE QUAIL. Thomas VG, George JC *Environ Physiol Biochem* 5: 413-27, 1975 (Eng) \*DL/76NOV477

ACCLIMATIZATION; ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; COLD; DIETARY FATS; FATTY ACIDS (metabolism, blood); LIPIDS (metabolism); MALE; QUAIL (metabolism); TRIGLYCERIDES (metabolism).

Thompson RG

INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY. Freeman JB, Stegink LD, Wittime MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

Thorner MO

LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

DEPRESSION, CHEMICAL; DOPAMINE (pharmacodynamics); HUMAN; PROLACTIN (secretion, antagonists & inhibitors); SOMATOTROPIN (secretion, antagonists & inhibitors).

Ticlete I

[DIABETIC COMA ASSOCIATED WITH ACUTE PANCREATITIS] Ticlete I, Fekete T *Rev Med Intern* [Med Intern] 28: 211-6, May-Jun (Rum) DL/76NOV232

ACIDOSIS, DIABETIC (etiology); ACUTE DISEASE; CASE REPORT; DIABETIC COMA (etiology); ENGLISH ABSTRACT; FEMALE; HUMAN; MIDDLE AGE; PANCREATITIS (complications).

Tillmann K

[ANIMAL EXPERIMENTAL STUDIES ON PERIODONTAL CHANGES IN ALLOXAN DIABETES] Bienengraber V, Tillmann K *Zahn Mund Kieferheilkd* 64: 260-6, 1976 (Eng) DL/76NOV280

Timasheva IN

[SYNTHESIS AND THE HYPOGLYCEMIC ACTION OF ALKANE SULFANILOXAMIDES AND ALKANE SULFONILHYDRAZINES OF OXAMINIC ACID] Chernykh VP, Dzhantemirova TS, Bannyi IP, Petunin PA, Timasheva IN *Farm Zh* 31: 41-5, May-Jun 76 (Ukr) DL/76NOV57

Timmermans HA

DEPRESSED PLASMA FFA TURNOVER RATE IN CUSHINGS SYNDROME. Birkenhager JC, Timmermans HA, Lamberts SW *J Clin Endocrinol Metab* 42: 28-32, Jan 76 (Eng) \*DL/76NOV525

Tishenina RS

[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME] Bogatyrev OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

Tissier J

[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT] Berland H, Moessner F, Willard D, Freys E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) DL/76NOV114

Titeica M

[CARBOHYDRATE METABOLISM DISORDERS IN MULTIPLE MYELOMA] Mincu I, Mihalache N, Titeica M, Cheta D, Ionescu-Tirgoviste C, Stanescu J, Constantinescu A *Rev Med Intern* [Med Intern] 28: 217-22, May-Jun 76 (Rum) DL/76NOV233

Titova VN

[EFFECT OF HYDROCORTISONE ON LIPID COMPOSITION OF BLOOD SERUM LIPOPROTEINS IN THE DEVELOPMENT OF EXPERIMENTAL ATHEROSCLEROSIS] Scherbakova IA, Gerasimova EN, Perova NV, Titova VN, Koldaeva AP, Galakhova IE *Vopr Med Khim* 21: 589-95, Nov-Dec 75 (Rus) \*DL/76NOV597

Tjalive H

DISTRIBUTION OF LABELED STREPTOZOTOCIN IN MICE: UPTAKE AND RETENTION IN PANCREATIC ISLETS. Tjalive H, Wilander E, Johansson EB *J Endocrinol* 69: 455-6, Jun 76 (Eng) DL/76NOV134

ANIMAL EXPERIMENTS (analysis); ISLANDS OF LANGERHANS (metabolism); MICE; STREPTOZOTOCIN (metabolism).

Tofano M

CHANGES IN BLOOD CONSTITUENTS IN RATS ADMINISTERED MORPHINE AND SUBJECTED TO HE-02 AT 11 ATA. De Boer B, Tofano M *Aviat Space Environ Med* 47: 151-3, Feb 76 (Eng) \*DL/76NOV635

Tong S

NONELECTROLYTE DIFFUSION ACROSS LIPID BILAYER SYSTEMS. Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng) \*DL/76NOV661

Tornqvist H

PURIFICATION AND SOME PROPERTIES OF A MONOACYLGLYCEROL-HYDROLYZING ENZYME OF RAT ADIPOSE TISSUE. Tornqvist H, Belfrage P *J Biol Chem* 251: 813-9, 10 Feb 76 (Eng) \*DL/76NOV512

ADIPOSE TISSUE (enzymology); AMINO ACIDS (analysis); ANIMAL EXPERIMENTS; CARBOXYLIC ESTER HYDROLASES (isolation & purification); CHLOROMERCURIBENZOATES (pharmacodynamics); DITHIOTHREITOL (pharmacodynamics); KINETICS; MALE; MOLECULAR WEIGHT; MONOACYLGLYCEROL LIPASES (isolation & purification, metabolism); PROTEIN CONFORMATION; RATS; SURFACE-ACTIVE AGENTS.

Tosteson DC

EFFECTS OF PEPTIDE PV AND RELATED COMPOUNDS ON THE IONIC PERMEABILITY OF LIPID BILAYER MEMBRANES. PP. 157-66. Tosteson DC *Inn Gardos G, Szasz I, ed. Biomembranes I structure and function*. Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) \*DL/76NOV390

ANIMAL EXPERIMENTS; BINDING SITES; ELECTRIC CONDUCTIVITY; ERYTHROCYTES; KINETICS; LIPIDS (blood); MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MONOGRAPH; PERMEABILITY; POTASSIUM; SHEEP; SODIUM; STRUCTURE-ACTIVITY RELATIONSHIP; VALINOMYCIN (analogs & derivatives).

Toyota T

NATURAL HISTORY OF DIABETES MELLITUS WITH SPECIAL REFERENCE TO AGE OF ONSET AND VASCULAR COMPLICATIONS. Goto Y, Toyota T, Masuda M, Komatsu K, Kurihara A *Tohoku J Exp Med* 119: 135-48, Jun 76 (Eng) DL/76NOV260

Tredway DR

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

Treves S

EFFECT OF PENTAGASTRIN, HISTALOG, GLUCAGON, SECRETIN, AND PERCHLORATE ON THE GASTRIC HANDLING OF 99MTC PERTECHNETATE IN MICE. Khettry J, Effmann E, Grand RJ, Treves S *Radiology* 120: 629-31, Sep 76 (Eng) DL/76NOV227

Triscari J

POSSIBLE INTERRELATIONSHIP BETWEEN METABOLITE FLUX AND APPETITE. PP. 115-25. Sullivan AC, Triscari J *Inn Novin D et al., ed. Hunger: basic mechanisms and clinical implications*. New York, Raven Press, 1975. W1 102 H936 1975. (Eng) \*DL/76NOV407

## Diabetes Literature—Author Index

van Deenen LL

### Trompeter RS

**24-HOUR URINARY GLUCOSE EXCRETION IN ASSESSMENT OF CONTROL IN JUVENILE DIABETES MELLITUS.** Levinson RJ, Trompeter RS, Grant DB *Arch Dis Child* 51: 463-6, Jun 76 (Eng) DL/76NOV331

### Trubestein G

**[FUNDAMENTALS OF PARENTERAL FEEDING IN INTERNAL DISEASES]** Trubestein G, Kikis D *Infusionstherapie* 2: 450-5, Dec 75 (Ger) \*DL/76NOV655

**ALCOHOL, ETHYL** (administration & dosage, pharmacodynamics); **AMINO ACIDS** (administration & dosage); **BURNS** (therapy); **CARBOHYDRATES** (administration & dosage); **EMULSIONS**; **ENGLISH ABSTRACT**; **FATTY ACIDS, ESSENTIAL** (administration & dosage); **GLUCONEOGENESIS** (drug effects); **GLUCOSE** (administration & dosage); **HUMAN**; **HYPERTHYROIDISM** (therapy); **PARENTERAL FEEDING** (methods); **VITAMINE E** (administration & dosage).

### Truswell AS

**CURRENT PRACTICE IN DIETARY MANAGEMENT OF DIABETIC CHILDREN. A TRANSATLANTIC COMPARISON.** Birkbeck JA, Truswell AS, Thomas BJ *Arch Dis Child* 51: 467-70, Jun 76 (Eng) DL/76NOV322

### Trutneva KV

**THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY.** Zaretskaya RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV17

### Tsalakian E

**SOMATOSTATIN DOES NOT SUPPRESS PLASMA PARATHYROID HORMONE.** Deftof LJ, Lorenzi M, Bohanon N, Tsalakian E, Schneider V, Gerich JE *J Clin Endocrinol Metab* 43: 205-7, Jul 76 (Eng) DL/76NOV96

### Tsalikian E

**EFFECTS OF PHYSIOLOGIC LEVELS OF GLUCAGON AND GROWTH HORMONE ON HUMAN CARBOHYDRATE AND LIPID METABOLISM. STUDIES INVOLVING ADMINISTRATION OF EXOGENOUS HORMONE DURING SUPPRESSION OF ENDOGENOUS HORMONE SECRETION WITH SOMATOSTATIN.** Gerich JE, Lorenzi M, Bier DM, Tsalikian E, Schneider V, Karam JH, Forsham PH *J Clin Invest* 57: 875-84, Apr 76 (Eng) DL/76NOV105

### Tsokos JO

**RESPIRATORY CONTROL IN HYPERPERMEABLE ADULT HEART MUSCLE CELLS. EFFECTS OF CALCIUM.** Tsokos JO, Blooms S *Biochim Biophys Acta* 423: 42-51, 15 Jan 76 (Eng) \*DL/76NOV436

ANIMAL EXPERIMENTS; CALCIUM (pharmacodynamics); ECTA (pharmacodynamics); HEART (drug effects); KINETICS; MICE; MITOCHONDRIA, MUSCLE (metabolism, drug effects); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PERMEABILITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Tsukuda S

**[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPYMIN. (2) ANALYSIS OF ITS MODE OF ACTION]** Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

### Tudor P

**[INTER-RELATIONS BETWEEN PULMONARY TUBERCULOSIS AND DIABETES MELLITUS]** Sfirilea V, Tudor P, Moise T *Rev Ig*

[*Pneumoftiziol*] 25: 39-42, Jan-Mar 76 (Rum) DL/76NOV237

### Tulloch B

**EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE.** Hope-Gill HF, Kissebier AH, Clarke P, Vydelingam N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

### Turakulov Iak

**[EFFECT OF AMP AND THE MITOCHONDRIAL INTERACTION FACTOR ON CA<sup>2+</sup> & ION TRANSPORT IN LIVER MITOCHONDRIA]** Turakulov Iak, Gainutdinov MKh, Salikov RS, Gizatullina ZZ, Lavina II *Dokl Akad Nauk SSSR* 226: 478-81, 11 Jan 76 (Rus) \*DL/76NOV465

ADENOSINE MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT (drug effects); CALCIUM (metabolism); IN VITRO; MITOCHONDRIA, LIVER (metabolism, drug effects); MITOCHONDRIAL SWELLING; RATS; THYROXINE (pharmacodynamics); TISSUE EXTRACTS (pharmacodynamics).

### Turner DM

**THE ROLE OF ADRENAL CATECHOLAMINES IN THE RELEASE OF CORTICOSTERONE AND FATTY ACIDS BY NICOTINE IN THE RAT.** Turner DM *Res Commun Chem Pathol Pharmacol* 12: 645-55, Dec 75 (Eng) \*DL/76NOV580

ADRENAL GLANDS (physiology, metabolism); ADRENAL MEDULLA (physiology); ANIMAL EXPERIMENTS; CATECHOLAMINES (physiology); CORTICOSTERONE (blood); FATTY ACIDS, NONESTERIFIED (blood); MALE; NICOTINE (pharmacodynamics); RATS; STRESS (physiopathology).

### Tyson JE

**GESTATIONAL AND PREGESTATIONAL DIABETES: AN APPROACH TO THERAPY.** Tyson JE, Hock RA *Am J Obstet Gynecol* 125: 1009-27, 1 Aug 76 (Eng) DL/76NOV308

ADOLESCENCE; ADULT; AMNIOTIC FLUID (analysis); BLOOD SUGAR (analysis); CASE REPORT; CHILD; DIABETES MELLITUS (therapy); FEMALE; FETAL DISTRESS (diagnosis); GLUCOSE (metabolism); HUMAN; INFANT; NEWBORN; INFANT, NEWBORN, DISEASES (prevention & control); INSULIN (therapeutic use); OXYTOCIN (administration & dosage); PLACENTAL LACTOGEN (urine); PREGNANCY IN DIABETES (diet therapy, drug therapy, therapy); PREGNANCY; ULTRASONICS (diagnostic use).

**ENDOCRINE-METABOLIC RESPONSE TO ACUTE STARVATION IN HUMAN GESTATION.** Tyson JE, Austin K, Farinholt J, Fiedler J *Am J Obstet Gynecol* 125: 1073-84, 15 Aug 76 (Eng) DL/76NOV310

ABORTION, THERAPEUTIC; ACUTE DISEASE; ALANINE (metabolism); AMINO ACIDS (metabolism); AMNIOTIC FLUID (metabolism); ARGinine (metabolism); BLOOD SUGAR (metabolism); FEMALE; GLUCONEOGENESIS, HUMAN; INSULIN (blood); LIVER (metabolism); NITROGEN (urine); PLACENTAL LACTOGEN (blood); PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY; PROLACTIN (blood); SOMATOTROPIN (blood); STARVATION (complications); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

### Uedeschini G

**ROLE OF GROWTH HORMONE IN LIPID MOBILIZATION STIMULATED BY PROLONGED**

**MUSCULAR EXERCISE IN THE RAT.** Feder-spil G, Uedeschini G, De Palo C, Sicolo N *Horm Metab Res* 7: 484-8, Nov 75 (Eng) \*DL/76NOV499

### Umeda M

**[METABOLIC ABNORMALITIES IN EXPERIMENTAL FATTY LIVER DEVELOPING INTO CIRRHOSIS. PART II. LONG-CHAIN FATTY ACID OXIDATION IN ISOLATED LIVER MITOCHONDRIA OF RATS]** Umeda M *Jpn J Gastroenterol* 72: 1512-9, Dec 75 (Jpn) \*DL/76NOV542

### ANIMAL EXPERIMENTS; ENGLISH

ABSTRACT; FATTY ACIDS (metabolism); FATTY LIVER (metabolism); IN VITRO; LIVER CIRRHOSIS, EXPERIMENTAL (metabolism); MITOCHONDRIA, LIVER (metabolism); RATS.

### Umezawa K

**[EFFECTS OF GLUCAGON ON GASTRIC SECRETION AND THE SERUM GASTRIN LEVEL]** Sakasaki S, Umezawa K, Nishiwaki H, Satake K *Jpn J Gastroenterol* 73: 481-6, May 76 (Jpn) DL/76NOV149

### Unger RH

**NORMAL GLUCAGON RESPONSE TO ARGININE INFUSION IN PREDIABETIC PIMA INDIANS.** Aronoff SL, Bennett PH, Rushforth NB, Miller M, Unger RH *J Clin Endocrinol Metab* 43: 279-86, Aug 76 (Eng) DL/76NOV98

### Uong DS

**[CONTROL OF GLUTAMATE DEHYDROGENASE ACTIVITY IN ISOLATED RAT LIVER MITOCHONDRIA BY PURINE NUCLEOTIDES, CYCLIC AMP, ALPHA-KETOGLUTARATE AND PHOSPHATE]** Khilmar D, Uong DS *Biochimia* 40: 1275-81, Nov-Dec 75 (Rus) \*DL/76NOV441

### Urbanek E

**SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS.** Sladek T, Filikova J, Pejchlova M, Sotolova O, Hartmannova B, Vitel J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

### Vainer EN

**[THE EFFECT OF COLD CARDIOPLEGIA ON MYOCARDIAL METABOLISM]** Vainer EN, Kofanova NN *Biol Nauki* 43-7, 1975 (Rus) \*DL/76NOV442

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); DOGS; HYPOTHERMIA, INDUCED; LACTATES (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PHOSPHORUS (metabolism); POTASSIUM (metabolism); PYRUVATES (metabolism); SODIUM (metabolism).

### Van Biervliet JP

**LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA.** Van Biervliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* 1: 594, 13 Mar 76 (Eng) \*DL/76NOV545

ACIDOSIS (etiology); CASE REPORT; GLUCOSE (administration & dosage, adverse effects); HUMAN; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES; LACTATES (blood); MALE; PARENTERAL FEEDING.

### van Deenen LL

**LIPID-PROTEIN INTERACTION IN MODEL SYSTEMS AND BIOMEMBRANES. PP. 3-16.** van Deenen LL *In: Gardos G, Szasz I, ed. Biomembranes: structure and function.* Amsterdam, North-Holland, 1975. W3 FE322 9th 1974 v.35. (Eng) (49) \*DL/76NOV402

## Diabetes Literature—Author Index

### Van Kessel WS

ADENOSINE TRIPHOSPHATASE (blood); BIOLOGICAL TRANSPORT; BLOOD PROTEINS (analysis); CELL MEMBRANE (metabolism; drug effects); CHOLESTEROL; ENZYME ACTIVATION (drug effects); ERYTHROCYTES (metabolism); FATTY ACIDS (metabolism); HUMAN; LIPLDS (blood); MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MONOGRAPH; PHOSPHOLIPASE; PHOSPHOLIPIDS (blood); POTASSIUM (pharmacodynamics); PROTEIN BINDING; PROTEINS (analysis); REVIEW; SODIUM (pharmacodynamics); VALINOMYCIN (pharmacodynamics).

### Van Kessel WS

THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM. Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 513-23, 15 Jan 76 (Eng) \*DL/76NOV480

### Van Obberghen E

CALCIUM ANTAGONISTS AND ISLET FUNCTION. II. INTERACTION OF THEOPHYLINE AND VERAPAMIL. Somers G, Devis G, Van Obberghen E, Malaisse WJ *Endocrinology* 99: 114-24, Jul 76 (Eng) DL/76NOV50

### Vandamme D

POTENTIAL ANTILIPOLYTIC ACTIVITY OF SULOCTIDIL. Roncucci R, Roba J, Lambelin G, Ferenczi M, Blaton V, Vandamme D, Peeters H *Naturwissenschaften* 62: 141-2, Mar 75 (Eng) \*DL/76NOV558

### Vanhaelst L

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermite M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

PITUITARY-THYROID AXIS REACTION AFTER MYOCARDIAL INFARCTION. Vanhaelst L, Degauque JP, Golstein J, Bastenie PA *Horm Metab Res* 8: 42-6, Jan 76 (Eng) \*DL/76NOV50

AGED; ASPARTATE AMINOTRANSFERASE (blood); CREATINE KINASE (blood); FEMALE; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (physiopathology, blood); PITUITARY GLAND (physiopathology); THYROID GLAND (physiopathology); THYROTROPIN (blood); THYROIDINE (blood); TIME FACTORS; THIODOXYTHYRONINE (blood).

### Vannucci RC

LETTER: DIAZOXIDE-DIPHENYLHYDANTOIN INTERACTION. Petro DJ, Vannucci RC, Kulin HE *J Pediatr* 89: 331-2, Aug 76 (Eng) DL/76NOV139

### Varela C

[SECRETION OF GROWTH HORMONE IN ACROMEGALY] Barcelo B, Salto L, Perez C, Lucas T, Varela C, Davila N, Alcaniz J *Rev Clin Esp* 141: 19-25, 15 Apr 76 (Spa) DL/76NOV228

### Vasile C

CARBOHYDRATE METABOLISM IN PHA STIMULATED HUMAN PERIPHERAL BLOOD LYMPHOCYTES. Apolлонj MC, Vasile C, Floridi A, Natali PG *Immunol Commun* 4: 453-63, 1975 (Eng) \*DL/76NOV654

### Vasku J

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTERVENTIONS. Sladek T, Filkula J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M,

Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

### Vassileva-Popova JG

ANALYTICAL INVESTIGATION OF THE OSCILLATORY PHENOMENON IN HORMONE REGULATION. PP. 43-52. Vassileva-Popova JG, Alexandrov A, Kotarov M *In Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) \*DL/76NOV387*

CIRCADIAN RHYTHM; COMPUTERS, DIGITAL; HOMEOSTASIS; HORMONES (physiology); LH (blood); MATHEMATICS; MODELS, BIOLOGICAL; MONOGRAPH; RECEPTEORS, HORMONE.

INFORMATION TRANSFER IN ACEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION. PP. 63-95 Vassileva-Popova JG, Yaney TK *In Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399*

ADAPTATION, PHYSIOLOGICAL; AGING; ALLOSTERIC REGULATION; AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS; CELL DIVISION; CELL MEMBRANE (metabolism); CENTRAL NERVOUS SYSTEM (metabolism); DEHYDROPIANDROSTERONE (pharmacodynamics); DNA REPLICATION; FATTY ACIDS, NESTERIFIED (metabolism); FEEDBACK; GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HORMONES (physiology); HUMAN; LH (metabolism); MODELS, BIOLOGICAL; MONOGRAPH; PHOSPHOLIPIDS (metabolism); PROTEINS (biosynthesis); RADIOLIGAND ASSAY; RATS; RECEPTEORS, HORMONE; REVIEW; SEX HORMONES (metabolism).

### Vattimo A

[BEHAVIOR OF BLOOD CALCIUM AFTER ORAL ADMINISTRATION OF GLUCOSE IN SUBJECTS WITH DEFECTIVE INTESTINAL ABSORPTION OF RADIOCALCIUM] Montagnani M, Gennari C, Vattimo A, Galli M, Nuti R *Boll Soc Ital Biol Sper* 52: 636-8, 15 MAY 76 (Ita) DL/76NOV509

### Vawter M

LONG-TERM EFFICACY OF HALOFENATE ON SERUM TRIGLYCERIDE LEVELS. Aronow WS, Vicario MD, Moorthy K, King J, Vawter M, Papageorges NP *Curr Ther Res* 18: 855-61, Dec 75 (Eng) \*DL/76NOV463

### Vinogradova NV

[CONTENT OF IMMUNOREACTIVE INSULIN AND CATECHOLAMINES IN BLOOD PLASMA AND DISORDERS OF CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCT] Oganova RG, Aleksandrova AA, Vinogradova NV, Korochkin IM *Kardiologiya* 15: 91-100, Sep 75 (Rus) DL/76NOV152

### Vinogradova NV

[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY] Brodskaya NI, Zotov IuV, Shchedrenov VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

### Violante A

[AN ULTRASTRUCTURAL RESEARCH OF PANCREATIC ISLETS IN SODIUM NITRITE POISONED RABBITS (AUTHORS TRANSR)] Violante A, Nardoni C, Lenza G *Ann Ist Super Sanita* 10: 171-7, 1974 (Ita) DL/76NOV322

ANIMAL EXPERIMENTS (analysis); ENDOPLASMIC RETICULUM; ENGLISH ABSTRACT; ISLANDS OF LANGERHANS (drug effects, ultrastructure); NITRITES (poisoning); RABBITS; SODIUM (poisoning).

### Virasoro E

PITUITARY AND EXTRAPITUITARY EFFECTS OF SOMATOSTATIN IN NORMAL MAN. Copinschi G, Leclercq-Meyer V, Virasoro E, Lhermite M, Vanhaelst L, Golstein J, Leclercq R, Fery F, Robyn C *Horm Metab Res* 8: 226-31, May 76 (Eng) DL/76NOV72

### Visca U

[CHANGES IN LIPID METABOLISM IN A CASE OF ASSOCIATED PRIMARY HYPOTHYROIDISM, OBESITY AND DIABETES MELLITUS] Pagliano FM, Bombara R, Giraldi B, Visca U *Minerva Med* 67: 2294-300, 21 Jul 76 (Ita) DL/76NOV189

### Vitek J

SUPPRESSION OF THE PROGRESS OF NECROSIS AFTER CORONARY ARTERY LIGATION IN THE DOG BY PHARMACOLOGIC INTER-

## Diabetes Literature—Author Index

Waterworth TA

VENTIONS. Sladek T, Filkova J, Pejchlova M, Sotolova O, Hartmannova B, Vitek J, Dostal M, Stepanek V, Urbanek E, Vasku J, Bednarik B *J Cardiovasc Surg (Torino)* 17: 321-8, Jul-Aug 76 (Eng) DL/76NOV88

Voegeli H

THE SUCRASE-ISOMALTASE COMPLEX (SI) FROM SMALL INTESTINE: A POSSIBLE HYDROLYTIC MECHANISM AND INDICATIONS ON ITS ROLE IN THE MEMBRANE TRANSPORT OF SOME SUGARS. PP. 131-44. Semenza G, Cogoli A, Quaranta A, Voegeli H *In: Gardos G, Szasz I, ed. Biomembranenstruktur und Funktion*. Amsterdam, North-Holland, 1975. W3: FE322 9th 1974 v.35. (Eng) \*DL/76NOV419

Vogelberg KH

[ALCOHOLISM AND METABOLIC DISEASES] Vogelberg KH *Dtsch Med Wochenschr* 101: 1199-202, 6 Aug 76 (Ger) [51] DL/76NOV48

ALCOHOL, ETHYL (metabolism); ALCOHOLISM (blood, complications); CHRONIC DISEASE; DIABETES MELLITUS (complications, metabolism); GOUT (complications, metabolism); HUMAN; HYPERLIPIDEMIA (complications, metabolism); LACTATES (blood); METABOLIC DISEASES (complications); REVIEW.

Voigt KH

IMMUNOLOGICAL IDENTITY OF HUMAN AND PORCINE GROWTH HORMONES. APPLICATION TO DETERMINATION OF GROWTH HORMONE IN PORCINE SERUM. Eitzrodt H, Schleyer M, Voigt KH, Pfeiffer EF *Hoppe Seyler's Z Physiol Chem* 356: 1839-41, Dec 75 (Eng) \*DL/76NOV503

Volger E

VELOCITY OF RED CELL AGGREGATION (RCA): PHOTOMETRIC DETERMINATION OF THE HALF-TIME AND AGGREGATION CONSTANT. Schmid-Schonbein H, Kline KA, Volger E *Biol Anat* 13: 91-2, 1975 (Eng) DL/76NOV356

MICRORHEOLOGICAL CHANGES OF BLOOD IN DIABETES MELLITUS. Volger E, Schmid-Schonbein H, Mehnert H *Biol Anat* 13: 97-8, 1975 (Eng) DL/76NOV357

BLOOD VISCOSITY; DIABETES MELLITUS (blood, physiopathology); ERYTHROCYTE AGGREGATION; HUMAN; MICROCIRCULATION (physiopathology); RHEOLOGY.

Vovk GP

[ROLE OF METABOLIC REGULATORS IN CASEIN HYDROLYSATE ASSIMILATION IN ALLOXAN DIABETES] Glanta RN, Skovronskaja EV, Vovk GP, Mikolishin LI *Biol Eksp Biol Med* 81: 560-1, May 76 (Rus) DL/76NOV12

Vrabec F

DIABETIC RETINOPATHY. A CLINICAL AND MORPHOLOGICAL STUDY. Zrustova M, Vrabec F, Rostapil J *Acta Diabetol Lat* 12: 272-88, Sep-Dec 75 (Eng) DL/76NOV283

Vydelingum N

EFFECTS OF INSULIN AND PROCAINE HYDROCHLORIDE ON GLYCOGEN SYNTHETASE ACTIVATION AND ADIPOCYTE CALCIUM FLUX: EVIDENCE FOR A ROLE OF CALCIUM IN INSULIN ACTIVATION OF GLYCOGEN SYNTHETASE. Hope-Gill HF, Kisebath AH, Clarke P, Vydelingum N, Tulloch B, Fraser TR *Horm Metab Res* 8: 184-90, May 76 (Eng) DL/76NOV70

Wada M

EFFECTS OF HYPEROSMOLARITY ON THE CYCLIC AMP CONCENTRATION AND LIPOLYSIS OF THE ADIPOCYTE STIMU-

LATED BY ADRENOCORTICOTROPIC HORMONE. Wada M, Akanuma Y, Kimura N, Nagata N *Endocrinology* 98: 84-90, Jan 76 (Eng) \*DL/76NOV469

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (cytology, metabolism); ANIMAL EXPERIMENTS; CORTICOTROPIN (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (biosynthesis); LIPIDS (metabolism); MALE; OSMOLAR CONCENTRATION; RATS; STIMULATION, CHEMICAL; SUCROSE (pharmacodynamics).

Wadman SK

LETTER: HAZARDS OF PARENTERAL GLUCOSE IN NEONATAL LACTIC ACIDEMIA. Van Biervliet JP, Senders RC, Lamers JM, Wadman SK *Lancet* 1: 594, 13 Mar 76 (Eng) \*DL/76NOV545

Wagner RC

THE ISOLATION AND CULTURE OF CAPILLARY ENDOTHELIUM FROM EPIDIDYMAL FAT. Wagner RC, Matthews MA *Microvasc Res* 10: 286-97, Nov 75 (Eng) \*DL/76NOV551

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; CAPILLARIES (anatomy & histology); CELLS, CULTURED; CELLULAR INCLUSIONS (ultrastructure); ENDOTHELIUM (cytology, physiology); EPIDIDYMIS (blood supply); IN VITRO; INTERCELLULAR JUNCTIONS (ultrastructure); PINOCYTOSIS; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Wahren J

EFFECT OF PROTEIN INGESTION ON SPLANCHNIC AND LEG METABOLISM IN NORMAL MAN AND IN PATIENTS WITH DIABETES MELLITUS. Wahren J, Felig P, Hagenfeldt L *J Clin Invest* 57: 987-99, Apr 76 (Eng) DL/76NOV107

ADULT; AMINO ACIDS (blood); BLOOD SUGAR (metabolism); DIABETES MELLITUS (metabolism, physiopathology); DIETARY PROTEINS; FATTY ACIDS, NONESTERIFIED (metabolism); GLYCERIN (blood); HUMAN; KETO ACIDS (metabolism); LACTATES (blood, metabolism); LEG (blood supply); MALE; MUSCLES (metabolism); NITROGEN (metabolism); OXYGEN CONSUMPTION; REGIONAL BLOOD FLOW.

Wallace HW

THE EFFECTS OF INSULIN ON URINARY UREA AND AMMONIA PRODUCTION. Stein TP, Leskiv MJ, Wallace HW, Blakemore WS *J Clin Endocrinol Metab* 43: 18-25, Jul 76 (Eng) DL/76NOV95

Wallin JD

IMPROVED GLUCOSE CONTROL IN NON-HOSPITALIZED PREGNANT DIABETIC PATIENTS. Lewis SB, Murray WK, Wallin JD, Coustan DR, Daane TA, Tredway DR, Navins JP *Obstet Gynecol* 48: 260-7, Sep 76 (Eng) DL/76NOV195

Walsh CH

DIABETIC KETOALKALOSIS: A READILY MISDIAGNOSED ENTITY. Lim KC, Walsh CH *Br Med J* 2: 19, 3 Jul 76 (Eng) DL/76NOV20

STUDIES IN WHOLE BODY POTASSIUM AND WHOLE BODY NITROGEN IN NEWLY DIAGNOSED DIABETICS. Walsh CH, Soler NG, James H, Harvey TC, Thomas BJ, Fremlin JH, Fitzgerald MG, Malins JM *Q J Med* 45: 295-301, Apr 76 (Eng) DL/76NOV223

ADOLESCENCE; ADULT; AGED; BODY COMPOSITION; DIABETES MELLITUS (diet therapy, drug therapy, metabolism); FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use); MALE; MIDDLE AGE; NITROGEN (analysis, metabolism); POTASSIUM (analysis, metabolism).

CONGENITAL MALFORMATIONS IN INFANTS OF DIABETIC MOTHERS. Soler NG, Walsh CH, Malins JM *Q J Med* 45: 303-13, Apr 76 (Eng) DL/76NOV224

Walton RJ

HYPOPHOSPHATEMIA OSTEOMALACIA AND FANCONI SYNDROME OF ADULT ONSET WITH DOMINANT INHERITANCE. POSSIBLE RELATIONSHIP WITH DIABETES MELLITUS. Smith R, Lindenbaum RH, Walton RJ *Q J Med* 69: 387-400, Jul 76 (Eng) DL/76NOV225

Ward K

BENEFICIAL EFFECTS OF A HIGH CARBOHYDRATE, HIGH FIBER DIET ON HYPERGLYCEMIC DIABETIC MEN. Kiehm TG, Anderson JW, Ward K *Am J Clin Nutr* 29: 895-9, Aug 76 (Eng) DL/76NOV304

Wardlaw SC

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

Warnet JM

RAISED SERUM ALPHA-2 GLOBULINS AS AN INDEPENDENT RISK FACTOR OF CORONARY HEART DISEASE. Ducimetiere P, Warnet JM, Richard JL *J Chronic Dis* 29: 423-9, Jul 76 (Eng) DL/76NOV92

Warshaw JB

PERINATAL ENERGY METABOLISM. PP. 104-19. Sinclair JC, Warshaw JB *In: Hafez ES, ed. The mammalian fetus: comparative biology and methodology*. Springfield, Thomas, 1975. WQ 210 M265 1973. (Eng) [21] \*DL/76NOV406

Wasikowa R

[SPONTANEOUS DIABETES REMISSION IN CHILDHOOD] Nowakowski T, Wasikowa R *Kinderarztl Prax* 44: 262-4, Jun 76 (Ger) DL/76NOV156

Wass JA

LETTER: DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Thorner MO, Wass JA, Rees LH, Besser GM, Dyer RG *Lancet* 1: 588, 13 Mar 76 (Eng) \*DL/76NOV544

Watanabe T

[DIABETES MELLITUS AND LIPID METABOLISM (AUTHORS TRANSL)] Watanabe T *Jpn J Clin Pathol* 24: 211-7, Mar 76 (Jpn) DL/76NOV148

ADULT; CHILD; CHOLESTEROL (blood); DIABETES MELLITUS (blood); FEMALE; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

Waterlow JC

THE RELATIVE IMPORTANCE OF MUSCLE PROTEIN SYNTHESIS AND BREAKDOWN IN THE REGULATION OF MUSCLE MASS. Millward DJ, Garlick PJ, Nnanyelugo DO, Waterlow JC *Biochem J* 156: 185-8, 15 Apr 76 (Eng) DL/76NOV361

Waterworth TA

PROCEEDINGS: EFFECT OF GLUCAGON ON PAIN IN ACUTE PANCREATITIS. Waterworth TA, Bevan PG *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) DL/76NOV325

ACUTE DISEASE; GLUCAGON (therapeutic use); HUMAN; PAIN (drug therapy); PANCREATITIS (drug therapy).

## Diabetes Literature—Author Index

Watkins E Jr

Watkins E Jr

ISOLATED ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES. Gray BN, Watkins E Jr *Aust J Exp Biol Med Sci* 54: 57-70, Feb 76 (Eng) DL/76NOV350

Watt SL

CHRONICALLY ILL CHILDREN. A PSYCHOLOGICALLY AND EMOTIONALLY DEVIANTE POPULATION. Tavormina JB, Kastner LS, Slater PM, Watt SL *J Abnorm Child Psychol* 4: 99-110, 1976 (Eng) DL/76NOV110

Waygood EB

THE CONTROL OF PYRUVATE KINASE OF *ESCHERICHIA COLI*. BINDING OF SUBSTRATE AND ALLOSTERIC EFFECTORS TO THE ENZYME ACTIVATED BY FRUCTOSE 1,6-BISPHOSPHATE. Waygood EB, Mort JS, Sanwal BD *Biochemistry* 13: 277-82, 27 Jan 76 (Eng) \*DL/76NOV422  
ALLOSTERIC REGULATION; ALLOSTERIC SITE; BINDING SITES; CATIONS; MONOVALENT; ENZYME ACTIVATION (drug effects); *ESCHERICHIA COLI* (enzymology, drug effects); FRUCTOSEPHOSPHATES (pharmacodynamics); GUANINE NUCLEOTIDES (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); HEXOSEDIPHOSPHATES (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); PHOSPHOENOLPYRUVATE (pharmacodynamics); PROTEIN BINDING; PYRUVATE KINASE (metabolism).

Weber G

[THE PANCREATIC ISLANDS OF THE RABBIT TREATED WITH A HIGH-CHOLESTEROL DIET ASSOCIATED WITH METFORMIN] Papi F, Pescatori GF, Sforza V, Weber G *Boll Soc Ital Biol Sper* 52: 649-50, 15 MAY 76 (Ita) DL/76NOV49

Webster SK

EFFECTS OF ACUTE METABOLIC ACIDOSIS ON PARATHYROID HORMONE ACTION AND CALCIUM MOBILIZATION. Beck N, Webster SK *Am J Physiol* 230: 127-31, Jan 76 (Eng) \*DL/76NOV622

Weekes TE

INSULIN RELEASE AND INHIBITION OF FORE-STOMACH MOTILITY IN SHEEP. Weekes TE, Bueno L, Garcia-Villar R *Horm Metab Res* 8: 238-9, May 76 (Eng) DL/76NOV74

ANIMAL EXPERIMENTS (analysis); BUTYRATES (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); INSULIN (blood, pharmacodynamics); MUSCLE CONTRACTION (drug effects); RUMEN (drug effects, physiology); SHEEP.

Wegiel A

[IMMUNOLOGICAL DISORDERS IN DYSGAM-MAGLOBULINEMIA TYPE VII IN A DIABETIC PATIENT] Rogala E, Felus E, Wegiel A *Pol Tyg Lek* 31: 793-5, 10 May 76 (Pol) DL/76NOV209

Weidman SW

ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPOPROTEINS INDUCED BY DIET. Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

Weihrauch JL

COMPREHENSIVE EVALUATION OF FATTY ACIDS IN FOODS. V. UNHYDROGENATED FATS AND OILS. Brignoli CA, Kinsella JE, Weihrauch JL *J Am Diet Assoc* 68: 224-9, Mar 76 (Eng) \*DL/76NOV530

Weisser A

EXPERIMENTAL ENDOTOXEMIA: DOES IT SIMULTANATE METABOLISM IN SEPTIC SHOCK O'Donnell TF Jr, Clowes GH Jr, Ryan NT, Blackburn GL, Weisser A *Surg Forum* 26: 25-6, 1975 (Eng) \*DL/76NOV589

Weitzman ED

TEMPORAL ORGANIZATION OF THE 24-HOUR PATTERN OF THE HYPOTHALAMIC-PITUITARY AXIS. PP. 371-95. Weitzman ED, Hellman L *In* Ferin M et al., ed. *Biorhythms and human reproduction*. New York, Wiley, 1974. *QJ 167 B616 1972*. (Eng) [56] \*DL/76NOV415  
ADOLESCENCE; ADULT; BLINDNESS; CIRCADIAN RHYTHM; CORTICOTROPIN (blood); FEMALE; HUMAN; HYDROCORTISONE (blood); HYPOTHALAMO-HYPOPHYSEAL SYSTEM (physiology); LH (blood); MALE; MENSTRUATION; MONOGRAPH; PROLACTIN (blood); REVIEW; SLEEP STAGES; SOMATOTROPIN (blood).

Wells WW

ON LYSOSOMAL FRAGILITY AND INDUCTION OF LIVER HEXOSE-MONOPHOSPHATE DEHYDROGENASES IN THE FASTED-REFED RAT. Schroeder HR, Gauger JA, Wells WW *Arch Biochem Biophys* 172: 206-14, Jan 76 (Eng) \*DL/76NOV627

Wennmalm A

TURNOVER OF PLASMA FREE ARACHIDONIC AND OLEIC ACIDS IN MEN AND WOMEN. Hagenfeldt L, Hagenfeldt K, Wennmalm A *Horm Metab Res* 7: 467-71, Nov 75 (Eng) \*DL/76NOV498

Wepler R

[ORAL GLUCOSE TOLERANCE TEST WITH A MIXTURE OF OLIGOSACCHARIDES AFTER PARTIAL GASTRECTOMY (AUTHORS TRANSL)] Wepler R, Rommel K *Klin Wochenschr* 54: 633-5, 1 Jul 76 (Ger) DL/76NOV157  
ADULT; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; MALE; OLIGOSACCHARIDES (diagnostic use); PEPTIC ULCER (surgery); POSTGASTRECTOMY SYNDROMES (metabolism).

Weseman J

EFFECT OF FIBROBLAST GROWTH FACTOR ON THE DIVISION AND FUSION OF BOVINE MYOBLASTS. Gospodarowicz D, Weseman J, Moran JS, Lindstrom J *J Cell Biol* 70: 395-405, Aug 76 (Eng) DL/76NOV90

Wesenberg W

[CLINICAL TRIAL OF THE ANTIBACTERIAL COMBINATION SULFAMOX-OLE/TRIMETHOPRIM (CN 3123)/SIXTH COMMUNICATION: RESULTS OF COMPATIBILITY OF CN 3123 (AUTHORS TRANSL)] Etzel M, Wesenberg W *Arzneim Forsch* 26: 678-83, 1976 (Ger) DL/76NOV382

White JG

LABILE AGGREGATION STIMULATING SUBSTANCE, FREE FATTY ACIDS, AND PLATELET AGGREGATION. Gerrard JM, White JG, Kravit W *J Lab Clin Med* 87: 73-82, Jan 76 (Eng) \*DL/76NOV660

White PC

NONELECTROLYTE DIFFUSION ACROSS LIPID BILAYER SYSTEMS. Poznansky M, Tong S, White PC, Milgram JM, Solomon AK *J Gen Physiol* 67: 45-66, Jan 76 (Eng) \*DL/76NOV661

Whitehead CC

BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS. Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS; BIOTIN (deficiency); BLOOD SUGAR (metabolism); BODY WEIGHT; CHICKENS; DERMATITIS (etiology); DIETARY FATS; DIETARY PROTEINS; FASTING; FATTY ACIDS (metabolism); FATTY LIVER (etiology, mortality); FEMALE; KIDNEY DISEASES (etiology, mortality); LIPIDS (blood); SYNDROME; VITAMIN B DEFICIENCY (complications).

Whitehouse FW

TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 104: 67, 70, Aug 76 (Eng) DL/76NOV171  
ADULT; CASE REPORT; DIABETES MELLITUS (complications); HUMAN; MALE.

Whitmer JT

RELATIONSHIP BETWEEN CORONARY FLOW AND ADENOSINE TRIPHOSPHATE PRODUCTION FROM GLYCOLYSIS AND OXIDATIVE METABOLISM. Neely JR, Liedtke AJ, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 8: 301-21, 1975 (Eng) \*DL/76NOV577

RATE-LIMITING STEPS OF CARBOHYDRATE AND FATTY ACID METABOLISM IN ISCHEMIC HEARTS. Neely JR, Rovetto MJ, Whitmer JT *Acta Med Scand [Suppl]* 9-15, 1976 (Eng) \*DL/76NOV616

Whitton PD

GLYCOGEN SYNTHESIS IN THE PERFUSED LIVER OF ADRENALECTOMIZED RATS. Whitton PD, Hems DA *Biochem J* 156: 585-92, 15 Jun 76 (Eng) DL/76NOV370

ADRENAL GLANDS (physiology); ADRENALECTOMY; ANIMAL EXPERIMENTS (analysis); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); HEXOSSES (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); IN VITRO; INSULIN (deficiency, pharmacodynamics); LIVER GLYCOGEN (biosynthesis); LIVER (drug effects, metabolism); MALE; RATS; STARVATION.

Widdas WF

PROCEEDINGS: THE EFFECTS OF NON-TRANSPORTABLE COMPETITIVE INHIBITORS OF SUGAR TRANSFER ON THE SHORT-CIRCUIT CURRENT OF THE RAT EVERTED SMALL INTESTINE. Muflis IW, Widdas WF *J Physiol (Lond)* 254: 50P-52P, Jan 76 (Eng) \*DL/76NOV538

Widnell CC

RELATIONSHIP BETWEEN MICROSOMAL MEMBRANE PERMEABILITY AND THE INHIBITION OF HEPATIC GLUCOSE-6-PHOSPHATASE BY PYRIDOXAL PHOSPHATE. Gold G, Widnell CC *J Biol Chem* 251: 1035-41, 25 Feb 76 (Eng) \*DL/76NOV514

Wieczorek V

[CATAMNESTIC STUDIES ON THE FUNCTIONAL CAPACITY IN PITUITARY NEOPLASMS] Bock R, Wieczorek V, Dachsel R *Z Aerzl Fortbild (Jena)* 70: 550-4, 15 May 76 (Ger) DL/76NOV274

Wieland OH

PHOSPHORYLATION STATE OF CYTOSOLIC AND MITOCHONDRIAL ADENINE NUCLEOTIDES AND OF PYRUVATE DEHYDROGENASE IN ISOLATED RAT

## Diabetes Literature—Author Index

Wu AL

**LIVER CELLS.** Siess EA, Wieland OH *Biochem J* 156: 91-102, 15 Apr 76 (Eng) \*DL/76NOV363

**Wight PA**  
**BIOTIN DEFICIENCY AND FATTY LIVER AND KIDNEY SYNDROME IN CHICKS GIVEN PURIFIED DIETS CONTAINING DIFFERENT FAT AND PROTEIN LEVELS.** Whitehead CC, Bannister DW, Evans AJ, Siller WG, Wight PA *Br J Nutr* 35: 115-25, Jan 76 (Eng) \*DL/76NOV641

**Wilander E**  
**DISTRIBUTION OF LABELLED STREPTOZOTOCIN IN MICE: UPTAKE AND RETENTION IN PANCREATIC ISLETS.** Tjälve H, Wilander E, Johansson EB *J Endocrinol* 69: 455-6, Jun 76 (Eng) \*DL/76NOV134

**Wilhelmi AF**  
**CONFERENCE ON THE STRUCTURE-FUNCTION RELATIONSHIPS OF PITUITARY GROWTH HORMONE: A REPORT.** Kostyo JL, Wilhelmi AF *Metabolism* 25: 105-24, Jan 76 (Eng) \*DL/76NOV666

**Williams IF**  
**PROCEEDINGS: INCREASED SYNTHESIS OF GLOMERULAR BASEMENT MEMBRANE COLLAGEN IN STREPTOZOTOCIN DIABETES.** Grant ME, Harwood R, Williams IF *J Physiol (Lond)* 257: 56P-57P, May 76 (Eng) \*DL/76NOV141

**Willard D**  
**[INDUCED HYPERGLYCEMIA AND ITS RELATIONSHIP TO UNDERWEIGHT FETUSES: STUDY ON A NEWBORN INFANT]** Berland H, Moessner F, Willard D, Freyss E, Tissier J *J Gynecol Obstet Biol Reprod (Paris)* 4: 235-43, Mar 75 (Fre) \*DL/76NOV114

**Williamson JR**  
**REGULATION OF MYOCARDIAL ENERGY METABOLISM.** Illingworth JA, Ford WC, Kobayashi K, Williamson JR *Recent Adv Stud Cardiac Struct Metab* 8: 271-90, 1975 (Eng) \*DL/76NOV575

**EFFECTS OF ACIDOSIS ON MYOCARDIAL CONTRACTILITY AND METABOLISM.** Williamson JR, Safer B, Rich T, Schaffer S, Kobayashi K *Acta Med Scand [Suppl]* 95-112, 1976 (Eng) \*DL/76NOV617

**ACIDOSIS, RESPIRATORY (metabolism, physiopathology); ADENINE NUCLEOTIDES (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; BLOOD PRESSURE (drug effects); CALCIUM (metabolism); EPINEPHRINE (pharmacodynamics); GLYCOLYSIS (drug effects); GUINEA PIGS; IPOVERATRIL (pharmacodynamics); LACTATES (metabolism); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PERFUSION; PHILIPPINES; PYRUVATES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

**Williamson RC**  
**PROCEEDINGS: OBSERVATIONS ON ACUTE PANCREATITIS.** Williamson RC *Ann R Coll Surg Engl* 58: 323, Jul 76 (Eng) \*DL/76NOV326

**ACUTE DISEASE; COMPARATIVE STUDY; GLUCAGON (therapeutic use); HUMAN; KALLIKREIN-TRYPSIN INACTIVATOR (therapeutic use); PANCREATITIS (drug therapy).**

**Willvonseder R**  
**LETTER: GENETIC FACTORS ON INSULIN ANTIBIOPES IN JUVENILE-ONSET DIABETES.** Scherthaner G, Ludwig H, Mayr WR, Willvonseder R *N Engl J Med* 295: 622, 9 Sep 76 (Eng) \*DL/76NOV181

**Wilmore DW**  
**COMPARISON OF CARBOHYDRATE AND FAT AS CALORIC SOURCES.** Long MJ 3d, Wilmore DW, Mason AD Jr, Pruitt BA *Jr Surg Forum* 26: 108-10, 1975 (Eng) \*DL/76NOV588

**ALTERATIONS IN GLUCOSE KINETICS FOLLOWING THERMAL INJURY.** Wilmore DW, Mason AD, Pruitt BA *Jr Surg Forum* 26: 81-3, 1975 (Eng) \*DL/76NOV591

**ADULT; BLOOD SUGAR (metabolism); BURNS (metabolism); CLINICAL RESEARCH; GLUCOSE (metabolism); HUMAN.**

**Wilson SD**  
**PLASMA ALPHA-CELL GLUCAGON IN PRIMARY HYPERPARATHYROIDISM.** Kalkhoff RK, Gossain VV, Matute ML, Wilson SD *Metabolism* 25: 769-75, JUL 76 (Eng) \*DL/76NOV175

**Winder WW**  
**A SPARING EFFECT OF INCREASED PLASMA FATTY ACIDS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN THE EXERCISING RAT.** Rennie MJ, Winder WW, Holloszy JO *Biochem J* 156: 647-55, 15 Jun 76 (Eng) \*DL/76NOV373

**Winegrad AI**  
**MORPHOLOGY AND METABOLISM OF AN AORTIC INTIMA-MEDIA PREPARATION IN WHICH AN INTACT ENDOTHELIUM IS PRESERVED.** Morrison AD, Berwick L, Orci L, Winegrad AI *J Clin Invest* 57: 650-60, Mar 76 (Eng) \*DL/76NOV526

**Wirtz KW**  
**THE PROTEIN-MEDIATED TRANSFER OF PHOSPHATIDYLCHOLINE BETWEEN MEMBRANES. THE EFFECT OF MEMBRANE LIPID COMPOSITION AND IONIC COMPOSITION OF THE MEDIUM.** Wirtz KW, Van Kessel WS, Kamp HH, Demel RA *Eur J Biochem* 61: 515-23, 15 Jan 76 (Eng) \*DL/76NOV480

**ANIMAL EXPERIMENTS; BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM; ELECTROPHORESIS; POLYACRYLAMIDE GEL; KINETICS; LECITHINS (metabolism); LIPIDS (metabolism); LIPOSOMES (metabolism); MAGNESIUM; MALE; MEMBRANES (metabolism); MITOCHONDRIA, LIVER (metabolism); PHOSPHATIDIC ACIDS; PHOSPHATIDYL CHOLINE (metabolism); POTASSIUM; PROTEIN BINDING; PROTEINS (metabolism); RATS; RECEPTORS, DRUG; STEARIC ACIDS.**

**Wise WC**  
**MATURATION OF MEMBRANE FUNCTION: TRANSPORT OF AMINO ACID BY RAT ERYTHROID CELLS.** Wise WC *J Cell Physiol* 87: 199-201, Dec 75 (Eng) \*DL/76NOV519

**ALANINE (metabolism, analogs & derivatives, pharmacodynamics); AMINO ACIDS (metabolism); AMINOISOBUTYRIC ACID (metabolism, analogs & derivatives, pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELL MEMBRANE (metabolism); COMPARATIVE STUDY; ERYTHROBLASTS (metabolism); ERYTHROCYTES (metabolism); RATS; RETICULOCYTES (metabolism); SODIUM (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

**Wittine MF**  
**INFUSION OF CRYSTALLINE AMINO ACIDS WITH AND WITHOUT DEXTROSE IN MORBID OBESITY.** Freeman JA, Stegink LD, Wittine MF, Thompson RG, Danney MM, Mason EE, DenBesten L *Surg Forum* 26: 35-7, 1975 (Eng) \*DL/76NOV590

**Witztum JL**  
**ALTERATIONS IN LEVELS AND INTERRELATIONS OF PLASMA APOLIPROTEINS INDUCED BY DIET.** Schonfeld G, Weidman SW, Witztum JL, Bowen RM *Metabolism* 25: 261-75, Mar 76 (Eng) \*DL/76NOV550

**Włodarczyk D**  
**[MORPHOLOGY OF ESOPHAGEAL AND GASTRIC MUCOSA IN DIABETES]** Włodarczyk D *Pol Tyg Lek* 31: 829-32, 17 May 76 (Pol) \*DL/76NOV210

**ADOLESCENCE; ADULT; DIABETES MELLITUS (pathology); DIABETES MELLITUS, JUVENILE (pathology); ENGLISH ABSTRACT; FEMALE; GASTRIC MUCOSA (pathology); HUMAN; MALE.**

**Wojcikowski C**  
**[NEW COMPOUNDS AND REACTIONS OF SULFONAMIDES WITH AMINES. XV. SYNTHESIS AND HYPOGLYCEMIC ACTIVITY OF SOME DERIVATIVES OF N-(BENZENESULFONYL)-3,5-DIETHYL-5-METHYL-2-PYRAZOLINE-1-CARBONA-MIDE]** Brzozowski Z, Dekare B, Angielski S, Wojcikowski C *Acta Pol Pharm* 33: 301-5, 1976 (Pol) \*DL/76NOV298

**Wollert U**  
**CIRCULAR DICHROISM STUDIES ON THE INTERACTION OF SULFONYLUREAS WITH INSULIN.** Müller WE, Wollert U *Naunyn Schmiedebergs Arch Pharmacol* 293: 97-9, 24 Mar 76 (Eng) \*DL/76NOV185

**Wood CM**  
**ABSORPTION OF SHORT CHAIN FATTY ACIDS FROM THE HUMAN JEJUNUM.** Schmitt MG Jr, Soergel KH, Wood CM *Gastroenterology* 70: 211-5, Feb 76 (Eng) \*DL/76NOV493

**Wood PD**  
**EFFECTS OF PHYSICAL ACTIVITY ON WEIGHT REDUCTION IN OBESE MIDDLE-AGED WOMEN.** Lewis S, Haskell WL, Wood PD, Manoogian N, Bailey JE, Pereira MB *Am J Clin Nutr* 29: 151-6, Feb 76 (Eng) \*DL/76NOV619

**Worm J**  
**[CLINICAL COMPARISON BETWEEN GLIBORNURIDE (GLUTIRIL) AND GLIBENCLAMIDE IN SENILE DIABETES. A CONTROLLED DOUBLE-BLIND TRIAL]** Mogensen EF, Worm J, Mikkelsen BO *Ugeskr Laeger* 138: 1569-71, 21 Jun 76 (Dan) \*DL/76NOV261

**Worrall J**  
**EVALUATION OF A DISCRETE-SAMPLE COMPUTER-DIRECTED CLINICAL ANALYZER.** Forrester RL, Collinge W, Hashimoto P, Worrall J *Clin Chem* 22: 211-6, Feb 76 (Eng) \*DL/76NOV458

**Wu AL**  
**RESISTANCE OF INTESTINAL TRIGLYCERIDE TRANSPORT CAPACITY IN THE RAT TO ADAPTATION TO ALTERED LUMINAL ENVIRONMENT.** Wu AL, Bennett Clark S *Am J Clin Nutr* 29: 157-68, Feb 76 (Eng) \*DL/76NOV620

**ANIMAL EXPERIMENTS; ATROPHINE (pharmacodynamics); BIOLOGICAL TRANSPORT; CHYLOMICRONS (metabolism); FASTING; ILEUM (surgery, transplantation); INTESTINAL ABSORPTION; INTESTINAL MUCOSA (physiology); INTESTINE, SMALL (physiology, drug effects); JEJUNUM (surgery, transplantation); LIPIDS (metabolism); MALE; RATS; TRANSPLANTATION, AUTOLOGOUS; TRIOLEIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

## Diabetes Literature—Author Index

Wulff AM

Wulff AM

LETTER: GLUCOSE ANALYSIS IN BLOOD AND SERUM WITH THE BM-TESTMETER. Nue I, Wulff AM, Bundgaard K. *Ugeskr Laeger* 138: 429-31, 9 Feb 76 (Dan) \*DL/76NOV594

Wuthier RE

LIPIDS OF MATRIX VESICLES. Wuthier RE *Fed Proc* 35: 117-21, Feb 76 (Eng) [41] \*DL/76NOV488

ANIMAL EXPERIMENTS; CARTILAGE

(metabolism, ultrastructure, growth & development); CATTLE; CHICKENS;

CHOLESTEROL (metabolism); EPIPHYSIS

(metabolism); EXTRACELLULAR SPACE

(metabolism); FATTY ACIDS (metabolism);

LIPIDS (metabolism); MEMBRANES

(metabolism); PHOSPHOLIPIDS (metabolism, biosynthesis); REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Wyhinny GJ

EXPERIMENTAL ARGON LASER PHOTOCOAGULATION. II. EFFECTS ON THE OPTIC DISC. Apple DJ, Wyhinny GJ, Goldberg MF, Polley EH. *Arch Ophthalmol* 94: 296-304, Feb 76 (Eng) \*DL/76NOV634

Wynn V

TRANSPORT KINETICS OF PLASMA FREE FATTY ACID, VERY LOW DENSITY LIPOPROTEIN TRIGLYCERIDES AND APOPROTEIN IN PATIENTS WITH ENDOGENOUS HYPERTRIGLYCERIDEMIA: EFFECTS OF 2,2-DIMETHYL, 5(2, 5-XYLOXY) VALERIC ACID THERAPY. Kisselbach AH, Alfarsi S, Adams PW, Seed M, Folkard J, Wynn V. *Atherosclerosis* 24: 199-218, Jul-Aug 76 (Eng) DL/76NOV383

Yajima H

STUDIES ON PEPTIDES. LVI. SYNTHESIS OF N1-TYR-SOMATOSTATIN. Fuji N, Yajima H. *Chem Pharm Bull (Tokyo)* 23: 2446-9, Oct 75 (Eng) \*DL/76NOV456

Yamagata S

PURIFICATION OF CANINE GUT GLUCAGON-LIKE IMMUNOREACTIVITY (GLI) AND ITS INSULIN RELEASING ACTIVITY. Ohneda A, Horigome K, Kai Y, Itabashi H, Ishii S, Yamagata S. *Horm Metab Res* 8: 170-4, May 76 (Eng) DL/76NOV69

Yamaguchi K

[PHARMACOLOGY OF CORONARY DILATOR AGENT, TRAPMIN. (2) ANALYSIS OF ITS MODE OF ACTION] Ohnishi H, Tsukuda S, Yamaguchi K, Ogawa N. *Folia Pharmacol Jpn* 71: 727-38, Oct 75 (Jpn) \*DL/76NOV495

Yamaguchi T

ENDOCRINE STUDIES IN DEPRESSION. PP. 22-31. Endo M, Endo J, Nishikubo M, Yamaguchi T, Hatotani N, Ligeti E, Palmieri F, Quagliariello E. *Inn Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV391*

Yamamoto T

SUPPRESSION OF GLUCAGON SECRETION DURING SURGERY. Miyata M, Yamamoto T, Nakao K. *Horm Metab Res* 8: 239-40, May 76 (Eng) DL/76NOV75

Yamashita K

EFFECTS OF CALCIUM IONOPHORE (A-23187) ON GLUCOSE OXIDATION AND IODIDE TRANSPORT IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E. *Endocrinol Jpn* 22: 415-8, Oct 75 (Eng) \*DL/76NOV475

A-23187 (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; ANTIBIOTICS

(pharmacodynamics); BIOLOGICAL TRANSPORT (drug effects); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DOGS; GLUCOSE (metabolism); IN VITRO; IODIDES (metabolism); OXIDATION-REDUCTION; THYROID GLAND (drug effects, metabolism); THYROTROPIN (pharmacodynamics).

Yamazaki M

STUDIES ON GROWTH HORMONE-RELEASING ACTIVITY IN BOVINE HYPOTHALAMIC PP. 232-42. Sawano S, Matsuno T, Yamazaki M, Baba Y, Takahashi K, Freedman SH, Ramcharan S, Hoag E, Goldfine A. *Inn Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV414*

Yanaihara N

ROLE OF CYCLIC AMP (CAMP) IN THE MECHANISM OF ACTION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES. PP. 267-75. Kaneko T, Oka H, Munemura M, Saito S, Yanaihara N. *Inn Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV411*

Yanev TK

INFORMATION TRANSFER IN AGEING: AN ALLOSTERIC MODEL OF HORMONAL REGULATION. PP. 63-95. Vassileva-Popova JG, Yanev TK. *Inn Vassileva-Popova JG, ed. Physical and chemical bases of biological information transfer. New York, Plenum Press, 1975. W3 IN133R 1974p. (Eng) [139] \*DL/76NOV399*

Yarger WE

ALTERATIONS OF RENAL FUNCTION DURING DIETARY-INDUCED HYPERURICEMIA IN THE RAT. Spencer HW, Yarger WE, Robinson RR. *Kidney Int* 9: 489-500, Jun 76 (Eng) DL/76NOV154

Yates FE

THE PHYSIOLOGY OF THE MAMMALIAN HYPOTHALAMO-ADENOHYPophysial-ADRENAL GLUCOCORTICOID SYSTEM - A NEW HYPOTHESIS. PP. 351-83. Yates FE, Maran JW, FERENT WAYS AND, RATES. 00050057. *Inn Aschoff J, ed. Chronobiological aspects of endocrinology. Stuttgart, Schattauer, 1974. W3 C117H 1974c. (Eng) \*DL/76NOV417*

ADRENAL CORTEX HORMONES (pharmacodynamics); ADRENAL GLANDS (physiology); ANIMAL EXPERIMENTS; BEHAVIOR; BLOOD SUGAR; BRAIN (physiology); CIRCADIAN RHYTHM; CORTICOTROPIN RELEASING HORMONE (secretion); CORTICOTROPIN (secretion); EMOTIONS; FEEDBACK; FEMALE; GLUCOCORTICOIDS (blood, physiology); HEART RATE; HUMAN; HYDROCORTISONE (secretion); HYPOTHALAMUS (physiology); MALE; MODELS, BIOLOGICAL; MONOGRAPH; PITUITARY GLAND (physiology); PITUITARY GLAND, ANTERIOR (physiology, innervation); SYMPATHETIC NERVOUS SYSTEM (physiology).

Yates T

HIGH-PERFORMANCE COLORIMETER WITH AN ELECTRONIC BUBBLE GATE FOR USE IN MINIATURIZED CONTINUOUS-FLOW ANALYZERS. Neely WE, Wardlaw SC, Yates T, Hollingsworth WG, Swinnen ME. *Clin Chem* 22: 227-31, Feb 76 (Eng) \*DL/76NOV459

Yeager M Jr

LIPOPROTEIN LIPASE IN RAT LUNG. EFFECT OF DEXAMETHASONE. Hamosh M, Yeager M Jr, Shechter Y, Hamosh P. *Biochim Biophys Acta* 431: 519-25, 22 Jun 76 (Eng) DL/76NOV7

Yeaman SJ

PROTEIN PHOSPHORYLATION AND HORMONE ACTION. Cohen P, Antoniw JF, Nimmo HG, Yeaman SJ. *Ciba Found Symp* 41: 281-95, 1976 (Eng) DL/76NOV41

Yen SS

PITUITARY FUNCTION IN PSEUDOCYESIS. Yen SS, Rebar RW, Quesenberry W. *J Clin Endocrinol Metab* 43: 132-6, Jul 76 (Eng) DL/76NOV93

ADOLESCENCE; ARGinine (administration & dosage); CASE REPORT; ESTROGENS (blood); FEMALE; FSH (blood); HUMAN; INFUSIONS, PARENTERAL; INSULIN (blood); LH (blood); PITUITARY GLAND (physiology); PROGESTERONE (blood); PROLACTIN (blood); PSEUDOPREGNANCY; RADIOIMMUNOASSAY; SOMATOTROPIN (blood); THYROTROPIN (blood).

Yen TT

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN VIABLE YELLOW OBESE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV. *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

ACETYL COA CARBOXYLASE (metabolism); AGING; ANIMAL EXPERIMENTS (analysis); ATP CITRATE LYASE (metabolism); BODY WEIGHT; FATTY ACID SYNTHETASE COMPLEX (metabolism);

GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); INSULIN (blood); LIVER (enzymology, growth & development); MALATE DEHYDROGENASE (metabolism); MALE; MICE; MICE, OBESE (metabolism); ORGAN WEIGHT; PHOSPHOGLUCONATE DEHYDROGENASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Yoshimura M

GROWTH HORMONE RESPONSES TO ADMINISTRATION OF L-5-HYDROXYTRYPTOPHAN (L-5-HTP) IN MANIC-DEPRESSIVE PSYCHOSSES. PP. 33-8. Takahashi S, Kondo H, Yoshimura M, Ochi Y, Pietrzky C, Geck P, Pfeiffer B. *Inn Hatotani N, ed. Psychoneuroendocrinology. Basel, Karger, 1974. WL 102 1657p 1974. (Eng) \*DL/76NOV395*

Young M

THE INFLUENCE OF INTRA-UTERINE SURGERY AND OF FETAL INTRAVENOUS NUTRITIONAL SUPPLEMENTS IN UTERO ON PLASMA FREE AMINO ACID HOMEOSTASIS IN THE PREGNANT EWE. Young M, Soltesz G, Noakes D, Joyce J, McFadyen IR, Lewis BV. *J Perinat Med* 3: 180-97, 1975 (Eng) \*DL/76NOV537

AMINO ACIDS (blood); ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); FEMALE; FETUS; HOMEOSTASIS; INTUBATION; MATERNAL-FETAL EXCHANGE; NUTRITION; NUTRITIONAL REQUIREMENTS; PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; PREGNANCY; SHEEP; UTERUS (surgery).

Yu PL

AN ANALYSIS OF THE RELATIONSHIPS AMONG OBESITY, PLASMA INSULIN AND HEPATIC LIPOGENIC ENZYMES IN VIABLE YELLOW OBESE MICE (AVY/A). Yen TT, Greenberg MM, Yu PL, Pearson DV. *Horm Metab Res* 8: 159-66, May 76 (Eng) DL/76NOV67

Yu S

ALTERED THYROIDAL RESPONSIVITY TO THYROTROPIN INDUCED BY CIRCULATING THYROID HORMONES. A SHORT-LOOP REGULATORY MECHANISM. Yu S, Friedman

## Diabetes Literature—Author Index

Anonymous

Y, Richman R, Burke G *J Clin Invest* 57: 745-55, Mar 76 (Eng) \*DL/76NOV27

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); ANIMAL EXPERIMENTS; FEEDBACK; FEMALE; GLUCOSE (metabolism); MALE; MICE; ORNITHINE DECARBOXYLASE (metabolism); PROTEINS (biosynthesis); RATS; THYROID GLAND (drug effects, metabolism); THYROID HORMONES (pharmacodynamics, metabolism, physiology); THYROTROPIN (pharmacodynamics, administration & dosage); THYROXINE (pharmacodynamics, physiology, metabolism); TRIIODOTHYRONINE (pharmacodynamics, physiology, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

**Yudkin J**

**THE ABSENCE OF UNDESIRABLE CHANGES DURING CONSUMPTION OF THE LOW CARBOHYDRATE DIET.** Evans E, Stock AL, Yudkin J *Nutr Metab* 17: 360-7, 1974 (Eng) \*DL/76NOV560

**Yunis EJ**

**HISTOCOMPATIBILITY (HLA) ANTIGENS AND DIABETIC MICROANGIOPATHY.** Barbosa J, Noreen H, Emme L, Goetz F, Simmons R, de Leiva A, Najarian J, Yunis EJ *Tissue Antigens* 7: 233-7, Apr 76 (Eng) DL/76NOV257

**Zaky DA**

**MALIGNANT EXTERNAL OTITIS: A SEVERE FORM OF OTITIS IN DIABETIC PATIENTS.** Zaky DA, Bentley DW, Lowy K, Betts RF, Douglas RG Jr *Am J Med* 61: 298-302, Aug 76 (Eng) DL/76NOV307

AGE FACTORS; AGED; CARBENICILLIN (therapeutic use); CASE REPORT; DIABETES MELLITUS (complications); FEMALE; HUMAN; MALE; MIDDLE AGE; OTITIS EXTERNA (complications, diagnosis, etiology); PSEUDOMONAS AERUGINOSA (isolation & purification); PSEUDOMONAS INFECTIONS (drug therapy).

**Zaretskaya RB**

**THE RATE OF THE OXYGEN DISCHARGE BY THE BLOOD OF PATIENTS WITH SOME FORMS OF OPHTHALMOPATHY.** Zaretskaya RB, Trutneva KV, Epstein IM, Mikhailova NA *Bull Ophthalmol Soc Egypt* 68: 737-40, 1975 (Eng) DL/76NOV17

ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DIABETIC RETINOPATHY (blood); FEMALE; GLAUCOMA (blood); HUMAN; MALE; OXYGEN CONSUMPTION; OXYGEN (blood).

**Zarins CK**

**SURVIVAL OF DOGS SUBJECTED TO PROFOUND HYPOTHERMIA WITH CIRCULATORY SUPPORT.** Zarins CK, Moossa AR, Skinner DB *Arch Surg* 111: 186-9, Feb 76 (Eng) \*DL/76NOV631

ALANINE AMINOTRANSFERASE (blood); ANIMAL EXPERIMENTS; ASPARTATE AMINOTRANSFERASE (blood); ASSISTED CIRCULATION; BLOOD PRESSURE; BLOOD SUGAR (analysis); CARBON DIOXIDE (blood); CARDIAC OUTPUT; DOGS; HEART RATE; HYPOThERMIA, INDUCED (mortality); LACTATES (blood); OXYGEN (blood); POTASSIUM (blood); PYRUVATES (blood); RESPIRATORS; RESUSCITATION.

**Zayed A**

**THE MANAGEMENT OF DIABETIC TRACTION DETACHMENT.** Zayed A *Bull Ophthalmol Soc Egypt* 68: 409-13, 1975 (Eng) DL/76NOV16

DIABETIC RETINOPATHY (complications); HUMAN; PROGNOSIS; RETINAL DETACHMENT (etiology, surgery); SCLERAL BUCKLING.

**Zenovko EI**

**[INDICATORS OF LIPID AND CARBOHYDRATE METABOLISM AND INSULIN CONTENT IN GLUCOSE TOLERANCE TEST IN PATIENTS WITH ITSENKO-CUSHINGS SYNDROME]** Bogatyrev OP, Tishenina RS, Zenovko EI *Sov Med* 115-8, Sept 75 (Rus) DL/76NOV249

**Zimmet P**

**CLINICAL TYPES OF DIABETES MELLITUS.** Zimmet P *Aust Fam Physician* 5: 228-31, Mar 76 (Eng) DL/76NOV343

ADOLESCENCE; DIABETES MELLITUS (classification); DIABETES MELLITUS (diagnosis); DIABETES MELLITUS, JUVENILE (diagnosis); HUMAN.

**Zincke H**

**CRITICAL REVIEW OF THE USE OF CAROTID BOVINE GRAFTS FOR HEMODIALYSIS.** Zincke H *Eur Surg Res* 8: 189-95, 1976 (Eng) DL/76NOV53

ADULT; ANIMAL EXPERIMENTS (analysis); ARTERIOVENOUS SHUNT, SURGICAL (methods); CAROTID ARTERIES (transplantation); CATTLE; DIABETES MELLITUS (complications); FOLLOW-UP STUDIES; GRAFT REJECTION; HEMODIALYSIS; HUMAN; MIDDLE AGE; TRANSPLANTATION, HETEROLOGOUS.

**Zonana J**

**INHERITANCE OF DIABETES MELLITUS.** Zonana J, Rimoin DL *N Engl J Med* 295: 603-5, 9 Sep 76 (Eng) DL/76NOV180

ADULT; AGE FACTORS; ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (familial & genetic); DIABETES MELLITUS, JUVENILE (immunology); DISEASES IN TWINS; GENOTYPE; HL-A; HUMAN; MUTATION; PHENOTYPE; PREDIABETIC STATE (familial & genetic); TWINS, MONOZYGOTIC; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. .

**Zotov IuV**

**[ALTERATIONS IN SEVERAL CEREBRAL METABOLIC INDICES IN PATIENTS WITH EPILEPSY]** Brodskaya NI, Zotov IuV, Shchedrenok VV, Vinogradova TV, Shcherbakova IA *Zh Nevropatol Psichiatr* 75: 1821-3, 1975 (Rus) \*DL/76NOV603

**Zrustova M**

**DIABETIC RETINOPATHY. A CLINICAL AND MORPHOLOGICAL STUDY.** Zrustova M, Vrabcov R, Rostlapi J *Acta Diabetol Lat* 12: 272-88, Sep-Dec 75 (Eng) DL/76NOV283

ADULT; AGED; AXONS; CAPILLARIES (pathology); DENDRITES; DIABETIC RETINOPATHY (diagnosis, pathology); FEMALE; HUMAN; MALE; MIDDLE AGE; RETINAL VESSELS (pathology); STAINS AND STAINING; TIME FACTORS.

**Zuhlike H**

**CARBOXYPEPTIDASE B-LIKE AND TRYPSIN-LIKE ACTIVITIES IN ISOLATED RAT PANCREATIC ISLETS.** Zuhlike H, Steiner DF, Lernmark A, Lipsey C *Ciba Found Symp* 41: 183-95, 1976 (Eng) [33] DL/76NOV39

ANIMAL EXPERIMENTS (analysis); CARBOXYPEPTIDASES (metabolism); EDTA (pharmacodynamics); INSULIN (biosynthesis); ISLANDS OF LANGERHANS (drug effects, enzymology); KINETICS; PROINSULIN (metabolism); RATS; REVIEW; TRYPSIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

**PROTEOLYTIC MECHANISMS IN THE BIOSYNTHESIS OF POLYPEPTIDE HORMONES.** pp. 531-49. Steiner DF, Kemmler W, Tager HS, Rubenstein AH, Lernmark A, Zuhlike H *In Reich E, et al., ed. Proteases and biological control.* Cold Spring Harbor, Cold Spring Harbor Laboratory, 1975. W3 C162N v.2 1975. (Eng) [104] DL/76NOV129

**Zuliani U**

**GLYCOLIPID MODIFICATIONS DURING PERITONEAL DIALYSIS IN PATIENTS WITH CHRONIC RENAL FAILURE.** Zuliani U, Novarini A, Bonetti A, Caronna S, Coruzzi P, Cavarotta A *Nephron* 17: 136-43, 1976 (Eng) DL/76NOV187

ADULT; BLOOD SUGAR (analysis); FATTY ACIDS (blood); GLYCOLIPIDS (metabolism); HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (blood); KIDNEY FAILURE; CHRONIC (blood, metabolism, therapy); MIDDLE AGE, PERITONEAL DIALYSIS.

**Anonymous**

**TEN-YEAR FOLLOW-UP REPORT ON BIRMINGHAM DIABETES SURVEY OF 1961. REPORT BY THE BIRMINGHAM DIABETES SURVEY WORKING PARTY.** Anonymous *Br Med J* 2: 35-7, 3 Jul 76 (Eng) DL/76NOV21

ADULT; AGED; DIABETES MELLITUS (complications, mortality); FOLLOW-UP STUDIES; GLUCOSE TOLERANCE TEST; GLYCOSURIA (complications, mortality); GLYCOSEURIA, RENAL (complications); HUMAN; MIDDLE AGE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

**SOMATOSTATIN—CLINICAL IMPLICATIONS.** Anonymous *Ciba Found Symp* 41: 313-50, 1976 (Eng) DL/76NOV44

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); DIABETES MELLITUS (pathology); DIABETES MELLITUS, JUVENILE (blood); GASTRIC MUCOSA (drug effects, metabolism, ultrastructure); GASTROINTESTINAL SYSTEM (metabolism); GLUCAGON (blood, metabolism); HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (metabolism); ISLANDS OF LANGERHANS (metabolism, ultrastructure); PANCREAS (metabolism); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (diagnostic use, metabolism, pharmacodynamics); SOMATOTROPIN (blood).

**PEPTIDE METABOLISM.** Anonymous *Ciba Found Symp* 41: 351-69, 1976 (Eng) DL/76NOV45

ADIPOSE TISSUE (drug effects, metabolism); ANIMAL EXPERIMENTS (analysis); CALCIUM (metabolism, pharmacodynamics); EPINEPHRINE (pharmacodynamics); FEMALE; GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); HORMONES (metabolism); INSULIN (pharmacodynamics); LIPID MOBILIZATION (drug effects); MAGNESIUM (pharmacodynamics); MALE; MITOCHONDRIA (drug effects, metabolism); MOLECULAR WEIGHT; PEPTIDES (metabolism); PROTEIN KINASE (metabolism); PYRUVATE; DEHYDROGENASE COMPLEX (metabolism); TRANSCRIPTION, GENETIC (drug effects); TRANSLATION, GENETIC (drug effects).

**LETTER: CONTROL OF BLOOD GLUCOSE IN DIABETES.** Anonymous *N Engl J Med* 295: 509-12, 26 Aug 76 (Eng) DL/76NOV184

ADULT; AGED; BLOOD SUGAR (analysis); DIABETES MELLITUS (blood, complications); FEMALE; HUMAN; MALE; MIDDLE AGE.

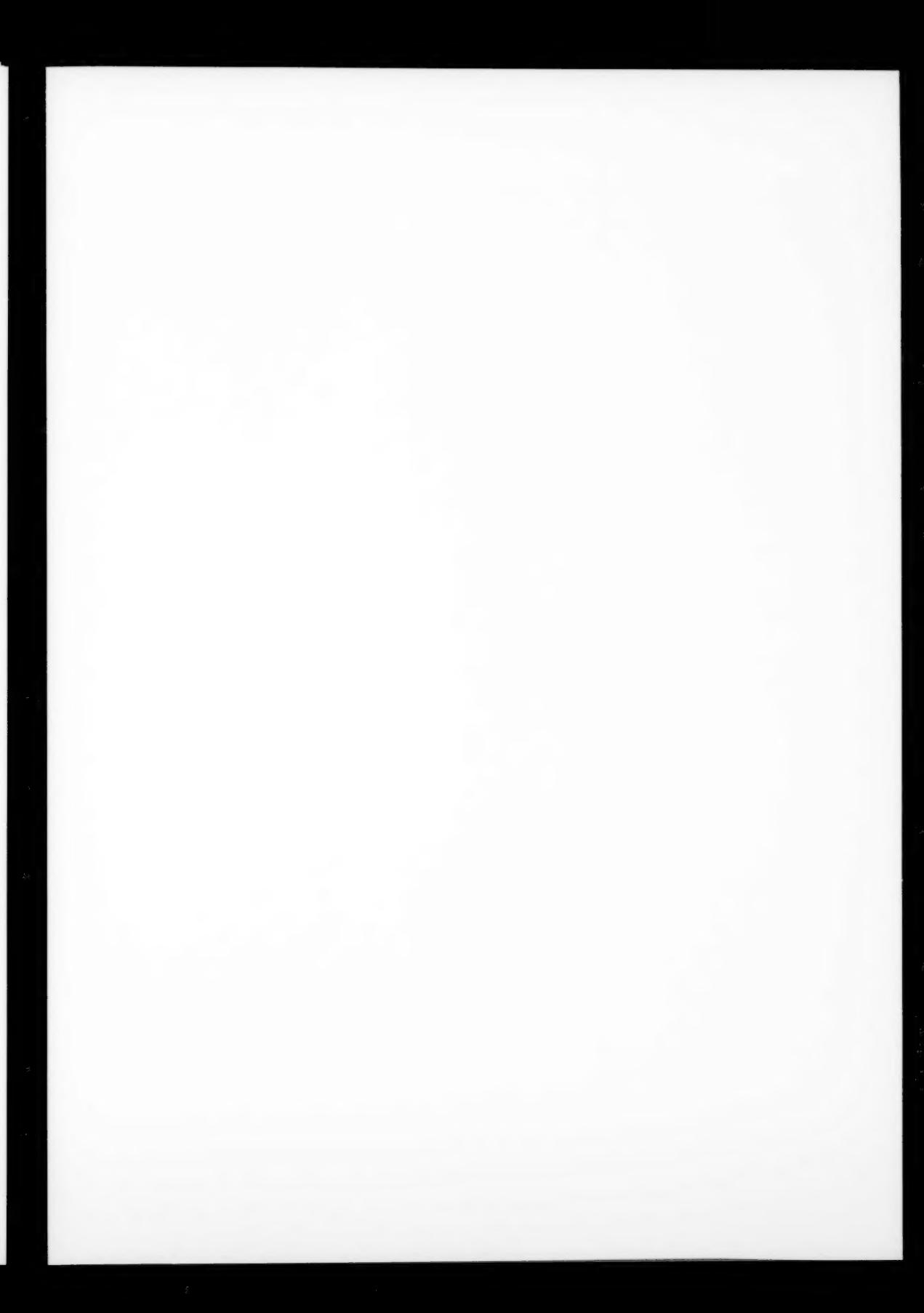
**PROTEIN SPARING PRODUCED BY PROTEINS AND AMINO ACIDS.** Anonymous *Nutr Rev* 34: 174-6, Jun 76 (Eng) [5] DL/76NOV190

ADIPOSE TISSUE (metabolism); ADMINISTRATION, ORAL; AMINO ACIDS (administration & dosage); BURNS (metabolism); DIETARY PROTEINS (administration & dosage); ENERGY METABOLISM; GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood); NITROGEN (metabolism); OBESITY

## Diabetes Literature—Author Index

### Yudkin J

(metabolism); PARENTERAL FEEDING; POSTOPERATIVE CARE; PROTEINS (metabolism); REVIEW; WOUNDS AND INJURIES (metabolism).  
**EFFECTS OF DEXAMETHASONE ON GLUCOSE METABOLISM.** Anonymous *Nutr Rev* 34: 185-7, Jun 76 (Eng) [9] DL/76NOV191  
ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT (drug effects); DEOXYGLUCOSE (metabolism); DEXAMETHASONE (pharmacodynamics); DIFFUSION; GLUCOSE (metabolism); INSULIN (metabolism, pharmacodynamics); LIVER (metabolism); METHYLGLUCOSIDES (metabolism); MUSCLES (metabolism); OXIDATION-REDUCTION; PROTEIN BINDING (drug effects); RECEPTORS, HORMONE; REVIEW.  
[THE SIGNIFICANCE OF DISORDERS OF CARBOHYDRATE AND LIPID METABOLISM FOR THE DEVELOPMENT OF DEGENERATIVE CARDIOVASCULAR DISEASES] Anonymous *Z Gesamte Inn Med* 31: 337-40, 15 Feb 76 (Ger) DL/76NOV275  
CARBOHYDRATES (metabolism); CARDIOVASCULAR DISEASES (etiology); DIABETES MELLITUS (complications); DIET, REDUCING; DIETARY FATS; FATTY ACIDS, UNSATURATED; HUMAN; HYPERLIPEMIA (complications); HYPERTENSION (complications); INSULIN (secretion); LIPIDS (metabolism); METABOLIC DISEASES (complications); MIDDLE AGE; OBESITY (etiology).  
**IMPAIRMENT OF MITOCHONDRIAL FATTY ACID OXIDATION BY CHRONIC ETHANOL INGESTION.** Anonymous *Nutr Rev* 34: 23-5, Jan 76 (Eng) [10] \*DL/76NOV562  
ACETYL COENZYME A (metabolism); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; CARBON DIOXIDE (metabolism); ELECTRON TRANSPORT (drug effects); FATTY ACIDS (metabolism); KREBS CYCLE (drug effects); MALE; MITOCHONDRIA, LIVER (metabolism); OXIDATION-REDUCTION; OXIDATIVE PHOSPHORYLATION (drug effects); RATS; REVIEW.



DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
NATIONAL INSTITUTES OF HEALTH  
BETHESDA, MD. 20014  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF H.E.W.  
HEW 394



**SPECIAL FOURTH CLASS  
BOOK RATE**

**CORRESPONDENCE CONCERNING THIS PUBLICATION**

**PAID SUBSCRIPTIONS:** If your address has changed and you wish to continue receiving this publication, please check here ..... enclose address label from this publication and your new address, and send to:

SUPERINTENDENT OF DOCUMENTS  
U.S. GOVERNMENT PRINTING OFFICE  
WASHINGTON, D.C. 20402

**FREE SUBSCRIPTIONS:** Contractors, Grantees, and Medical Libraries  
If your address has changed and you wish to continue receiving this publication, please check here ..... enclose address label from this publication and your new address, and send to:

SCIENTIFIC COMMUNICATIONS OFFICE  
NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM,  
AND DIGESTIVE DISEASES  
NATIONAL INSTITUTES OF HEALTH  
BUILDING 31, ROOM 9A-03  
BETHESDA, MARYLAND 20014

Individual copies should be purchased from the Superintendent of Documents.

